U.S. Department of Transportation
Volpe Center

Supplemental
Phase II Environmental Site Assessment

Frog, Switch & Manufacturing Company
600 East High Street, Carlisle, Pennsylvania



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Acronyms and Abbreviations

EPA	United States Environmental Protection Agency
ESA	environmental site assessment
FSP	field sampling plan
GPR	ground penetrating radar
mg/kg	milligram per kilogram (part per million)
MSC	medium-specific concentration
PADEP	Pennsylvania Department of Environmental Protection
PAH	polycyclic aromatic hydrocarbon
PCB	polychlorinated biphenyl
QA/QC	quality assurance/quality control
REC	recognized environmental condition
SVOC	semivolatile organic compound
TBA	targeted brownfields assessment
TPH-GRO	total petroleum hydrocarbons gasoline range organics
TPH-DRO	total petroleum hydrocarbons diesel range organics
UST	underground storage tank
VOC	volatile organic compound
Volpe	John A. Volpe National Transportation Systems Center

Executive Summary

In support of the U.S. Environmental Protection Agency Region 3 Targeted Brownfields Assessment Program, the U.S. Department of Transportation John A. Volpe National Transportation Systems Center conducted a Supplemental Phase II Environmental Site Assessment (ESA) in June 2026 for the property known as the Frog, Switch & Manufacturing Company (the Site). The purpose of this Supplemental Phase II ESA was to delineate areas of soil contamination identified during the October 2025 Phase II ESA and to further evaluate the presence of arsenic, a naturally occurring contaminant of concern, to support establishing a background standard.

The Site has been used for industrial and manufacturing operations since the 1700s and is currently being decommissioned to support future property redevelopment. Supplemental Phase II activities were conducted in accordance with the Field Sampling Plan (FSP) that was approved by EPA in March 2026.

Delineation sampling included the advancement of 25 additional soil borings and the collection and analysis of soil samples to further define the extent of previously identified soil contamination. Soils were found to mainly consist of a silty clay material underlain by limestone, which has been encountered at varying depths across the Site. Surficial materials generally consisted of loams, sands, or material expected to be fill in the top few feet of the soil surface. Groundwater was not encountered during soil boring activities.

While delineating contamination at the southeast corner of the foundry complex, petroleum-saturated soil was encountered at soil boring FROG-SB-212, which is located immediately adjacent to the foundry complex in the vicinity of piping near “Old UST #2”. Petroleum-saturation was encountered between 5 to 7 ft. bgs. This contamination appears to be delineated to the east but may continue west beneath the foundry complex.

Delineation sampling results in soil found that arsenic contamination above the applicable residential standard is generally persistent throughout parts of the site and is not fully delineated. Cobalt contamination above the residential standard has mostly been delineated within the southeast corner of the Site’s foundry complex, however impacts may continue west beneath the foundry complex. Iron contamination above both the residential and non-residential standards appears to be limited to a surficial soil hotspot in the northern portion of the scrapyard. Manganese contamination above the residential standard appears limited to a surficial soil in the northern and western portion of the scrapyard. Polycyclic aromatic hydrocarbon contamination above the residential standard appears limited to surficial soil in the area of staining outside of the Frog Shop former drum storage shed and to the area north of the Dry Storage Building as well as the area where petroleum-saturated soil was encountered.

The arsenic evaluation included the advancement of 10 additional borings advanced in an on-Site background study area in the northeast corner of the property that was found to have soil characteristics that were representative of the Site and contained no obvious signs of contamination by PID, visual, or olfactory observations. Background concentrations of arsenic ranged from 5.36 to 10.1 mg/kg in surficial samples and from 4.76 to 24.3 mg/kg in subsurface samples. Arsenic analytical data has been prepared for the Site owner to conduct the appropriate statistical analyses and to establish a soil background

standard for arsenic in coordination with the state regulator for review and approval.

Based on the findings of this Supplemental Phase II ESA, it is recommended that appropriate remediation standards consistent with planned future Site uses be determined in consult with the regulator, and that soil with contamination exceeding these standards be remediated in accordance with the Pennsylvania Act 2 Remediation Process. Additional sampling may be appropriate to further delineate the extent of areas targeted for remediation. It is also recommended that appropriate response actions and applicable notifications be made to address the presence of petroleum-saturated soil that was identified at the southeast corner of the foundry complex.

1.0 Introduction

In support of the United States Environmental Protection Agency (EPA) Region 3 Targeted Brownfields Assessment (TBA) Program, the United States Department of Transportation John A. Volpe National Transportation Systems Center (Volpe) conducted a Supplemental Phase II Environmental Site Assessment (ESA) for the property known as the Frog, Switch & Manufacturing Company (the Site), located at 600 East High Street in Carlisle, Pennsylvania.

1.1 Purpose

A Phase I ESA completed for the Site in April 2025 by BL Companies identified multiple recognized environmental conditions (RECs) that indicate the presence, or likely presence, of hazardous substances or petroleum products due to a release or potential release to the environment (BL, 2025). In October 2025, Volpe conducted a Phase II ESA to determine if soil at the Site has been impacted by the identified RECs. The purpose of this Supplemental Phase II ESA was to further characterize soil impacts identified during the Phase II ESA by:

1. Delineating the areas of soil contamination by performing expanded sampling.
2. Further evaluating the presence of arsenic at the Site at an appropriate background location to determine background concentrations of arsenic, which is a contaminant of concern that is naturally occurring.

This Supplemental Phase II ESA design was guided by *ASTM E1903-19 Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process* and the Pennsylvania Department of Environmental Protection (PADEP) *Land Recycling Program Technical Guidance Manual* (ASTM, 2019; PADEP, 2019).

1.2 Scope

The scope of the Phase II ESA is described in the *Field Sampling Plan, Frog, Switch & Manufacturing Company, Carlisle, Pennsylvania* (Volpe, 2026a)(FSP) and included the advancement of 35 additional soil borings that were logged for soil characteristics, field screened for volatiles, and sampled for laboratory analysis for a targeted set of metals and polyaromatic hydrocarbons (PAHs). Twenty-five of the borings were advanced as part of the soil contamination delineation effort and the remaining ten borings were advanced as part of the arsenic soil background study. Additionally, a boring location and elevation survey of all 56 borings that were completed as part of the Phase II and Supplemental Phase II ESA activities was performed.

2.0 Site Background

A summary of the Site's background is provided in the following sections. A full Site description, including further details, figures, and records concerning the Site history, uses, ownership, features, and results from previous environmental investigations is provided in the *Phase I Environmental Site Assessment, Frog, Switch & Manufacturing Company* (BL, 2025).

2.1 Site Location

The property known as Frog, Switch & Manufacturing Company is approximately 31 acres in size and distributed across 11 individual tax parcels. It is located at 600 East High Street in Carlisle, Pennsylvania. Carlisle is a borough in Cumberland County. The Site is approximately one mile west of the intersection of Interstate 81 and Pennsylvania Route 641. The Site location and parcel boundaries are shown in Figure 1.

2.2 Site History

The Site was reportedly occupied by a brewery in the 1700s and a brick company in the 1800s. Beginning in the late 1800s, Carlisle Manufacturing Co. occupied the Site and manufactured railroad components such as frogs, switches, and other steel parts. In the early 1900s, Carlisle Manufacturing Co. changed its name to Frog, Switch & Manufacturing Company. In the 1960s, the company transitioned from manufacturing steel railroad parts to manufacturing manganese steel grinding components used in quarrying and mining operations. Former site plans and descriptions show that the Site's buildings included former operations such as metal casting, blacksmithing, painting, woodworking, lumber storage, oil storage, foundry sand storage, machine repairing, and metal scraping. An electrical substation was installed along the western Site boundary sometime between 1958 and 1968. Landfilling of manufacturing waste, primarily foundry sand, began in the northeast portion of the Site around 1910. The landfill was covered, graded and seeded by 2010 and formally closed in 2013. An environmental covenant for the landfill includes activity and use limitations. Frog, Switch & Manufacturing Company ceased operations in 2023 and decommissioning activities are ongoing (BL, 2025).

2.3 Physical Setting

The Site is relatively flat and slopes slightly to the west. According to the April 2025 Phase I ESA, surface water runoff is presumed to flow to the west across the Site towards Letort Spring Run. Previous groundwater investigations indicated that in the southwest corner of the Site, groundwater flow was to the north-northwest. Groundwater flow in other areas of the Site may vary due to the presence of sinkholes or karst features. The Natural Resources Conservation Service Web Soil Survey shows that the Site is primarily underlain by Udorthents-Urban land complex, which indicates a potential for the presence of fill material. Eastern portions of the Site are documented to be underlain by Hagerstown silt loams (BL, 2025). A description of the soil characteristics observed during the Phase II and Supplemental Phase II ESAs are described later in this report.

2.4 Current Use

At the time of the 2025 Phase I ESA, the Site was owned by Frog, Switch & Manufacturing Company but has since been purchased by the Real Estate Collaborative for redevelopment. Buildings at the Site are now vacant and are in the process of being demolished.

2.5 Planned Future Use

Multiple reuse scenarios have been proposed for the Site, including a park, greenspace, or solar farm near the conditionally closed landfill, and potential residential, commercial, light industrial, or mixed uses on remaining portions of the Site.

3.0 Previous Environmental Investigations

3.1 Phase I Environmental Site Assessments

Phase I ESAs for the Site were completed in 2001 and 2021 by Rettew Associates, Inc. and most recently in April 2025 by BL Companies (Rettew, 2001; Rettew, 2021; BL, 2025). The 2025 Phase I ESA report identified the following RECs[1]:

- Primarily industrial and manufacturing uses of the Site beginning in the 1800s
- In-ground septic tank for welding helmet wash water and sinkholes for stormwater containment
- Observed surface staining associated with petroleum product storage and containers
- Presence of an electrical substation with potential for historical PCB contamination
- Presence of two closed in-place USTs which lack closure documentation, five USTs which were removed in 1989 and lack full closure documentation, one undocumented site reconnaissance-identified UST with an observed vent pipe, and one possible undocumented gasoline UST which was present on Sanborn maps from 1929 to 1969
- Possible releases of hydraulic oil from the scrapyard grabber
- Possible groundwater impacts from a former manufactured gas plant west of the Site that was contaminated with inorganics, chlorinated solvents, polycyclic aromatic hydrocarbons, and other organic compounds

The 2025 Phase I ESA also identified historical RECs[2] associated with six USTs removed from the Site between 1989 and 1996 with formal closure documentation, and a controlled recognized environmental condition associated with the conditional closure of an on-site landfill with ongoing use limitations. The environmental covenant for the landfill includes limitations on construction in the footprint of the landfill without PADEP approval, excavation or alterations of the landfill cover, vehicle and foot traffic, potable and agricultural groundwater use, and residential use or disturbance. The covenant sets requirements for maintenance and monitoring of the landfill cover and PADEP approval for all future development and construction activities. De minimis conditions[3] and business environmental risks[4] identified in the Phase I ESA report include the presence of railroad tracks, with potential for impacts from wood treatment chemicals in railroad ties and/or herbicide use along the tracks; removal of impacted soil that was associated with a small diesel fuel release; the presence of two out-of-service aboveground storage tanks; areas of historical staining; the possible presence of asbestos-containing materials or other hazardous building materials such as lead-based paint and PCBs based on the ages of the structures; and an ongoing offsite investigation associated with releases of fuel from a Speedway gas station southwest of the Site.

[1] A REC is the presence, or likely presence, of hazardous substances or petroleum products due to a release or potential release to the environment.
[2] A historical REC is a previous release of hazardous substances or petroleum products affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities and meeting unrestricted use criteria.
[3] A de minimis condition is one that does not pose a threat to human health and the environment.
[4] A business environmental risk is a potential environmental-driven business impact on a commercial property.

3.2 Previous Groundwater Monitoring

A total of 12 groundwater monitoring wells were previously constructed on-site to evaluate groundwater impacts, including around the conditionally closed landfill (4 monitoring wells), the foundry complex (5 monitoring wells), the former MGP (2 monitoring wells), and the ongoing investigation at the offsite gas station (1 monitoring well). The four monitoring wells related to the landfill and the five related to the foundry complex are reported to have been sealed and closed. Based on observations made by Volpe at the Site, the two monitoring wells related to the former MGP appear to have been removed. The monitoring well associated with the offsite gas station has been observed by Volpe but was not opened.

The most recent results from prior groundwater investigations associated with the landfill closure and the offsite gas station release did not identify any exceedances of PADEP Residential Used Aquifer Statewide Health Standard Medium Specific Concentrations (MSCs), except for periodic exceedances of molybdenum associated with the landfill. Conditional closure of the landfill was attained in March 2025 by demonstrating decreasing or stable molybdenum trends. Groundwater impacts from the MGP are reported to extend onto the Site, however information regarding specific compounds is not available.

Around the foundry complex, groundwater monitoring and gauging of separate phase liquid (SPL) was terminated with PADEP approval in March 2025, determining that SPL had been removed to the maximum extent practicable and remained in de minimis amounts. No dissolved phase analytes on the PADEP short list of No. 2 Fuel Oil Compounds (benzene, toluene, ethylbenzene, xylene, naphthalene, fluorene, and phenanthrene) were detected in any of the foundry complex wells during the final years of quarterly monitoring.

3.3 Hazardous Building Material Surveys

An asbestos identification survey was conducted at the Site in May 2021 by Cumberland Analytical Laboratories (Cumberland, 2021) and supplemented by a hazardous building materials survey completed in September 2025 as part of the Phase II ESA by Viva Environmental, Health, & Safety LLC under contract with Volpe (Viva, 2025). Buildings were inspected for asbestos-containing materials, lead-based paints, PCB-containing materials, and other hazardous materials, including universal wastes. The surveys identified asbestos in materials such as window caulking, window glazing, mastics, floor tiles, rope, thermal system insulation, roofs, transite ceilings, and fire doors in some of the Site buildings. Lead-based paints were identified on walls, stairs, windows, ceilings, doors, shelving, cabinets, handrails, machines, platforms, roof supports, concrete bollards, and catwalks. PCBs were not detected in any building material samples. Universal wastes identified in the Site buildings included light ballasts, refrigerants, mercury-containing devices, batteries, and drums. Asbestos abatement activities were observed to be ongoing in the Foundry Complex at the time of the Supplemental Phase II ESA.

3.4 Removal of Site Reconnaissance-Identified UST

In July 2025, Rettew Field Services, Inc., on behalf of the Site owner, completed a subsurface utility survey to delineate the UST and piping that was identified as a REC during site reconnaissance for the April 2025

Phase I ESA. The presence of an unregistered 2,000-gallon No. 2 fuel oil tank was confirmed. Approximately 1,850 gallons of heating oil were recovered and the tank was removed. No impacts to soil were observed and groundwater was not encountered. Confirmatory soil samples were collected below tank piping, from the excavation bottom and sidewalls, and from the soil removed during the excavation. The samples were analyzed for the constituents included on the PADEP Short List of Petroleum Products for Fuel Oil Number 2. No constituents were detected above the laboratory reporting limits in the samples. The excavation was backfilled with excavated material and clean stone (Rettew, 2025a; Rettew, 2025b). Based on the findings from the UST removal action and the results from the confirmatory soil samples, the REC associated with the site reconnaissance-identified UST was removed from the scope of this Phase II ESA.

3.5 Tank Locating Survey

As part of the Phase II ESA, Volpe oversaw a survey that was completed by its contractor, Sage, LLC on October 14, 2025, to identify suspected out-of-service or abandoned USTs and to locate buried utilities in the vicinity of proposed soil boring and sampling locations. The survey was conducted by a technician from Sage, LLC utilizing electromagnetic locating and ground penetrating radar (GPR) equipment. The tank locating survey was conducted in the vicinity of the following potential tanks identified as RECs in the Phase I ESA: Old UST #1, Old UST #2, the Sanborn-map identified UST, and the cluster of USTs 001-005. The locations of these suspected and former USTs are shown in Figure 2 (Sage, 2025).

Two subsurface anomalies were identified by the GPR in the gravel lot where USTs 001-005 were previously located, however it could not be confirmed whether these anomalies were associated with a tank. The Phase II ESA soil borings proposed in the vicinity of these tanks were adjusted to target the identified anomalies.

Piping believed to be associated with Old UST #2 was also observed and delineated by electromagnetic locating. However, no evidence of the potential presence of a tank was observed by GPR at this location. The survey did not identify any evidence of tanks at the locations of Old UST #1 or the Sanborn-map identified UST.

3.6 Phase II Environmental Site Assessment Soil Sampling

In October 2025, Volpe completed a Phase II ESA that included the advancement of 21 soil borings and the collection and analysis of two soil samples from each boring to evaluate surficial and subsurface conditions. Surface samples were collected from 0 to 2 feet below the ground surface (ft. bgs) and subsurface samples were collected from the bottom of each boring or from the depth with the highest photoionization detector (PID) response, if detected. Additional soil samples were collected from foundry sand and floor materials in the Site's foundry complex and from surficial soil at an area adjacent to the Site's Frog Shop that was impacted by a 2025 fire. Soils were found to consist mainly of a silty clay material underlain by limestone, which was encountered at varying depths across the Site, approximately ranging from 5 to 32 ft. bgs. Surficial materials generally consisted of loams, sands, or material indicative of fill in the top few feet of the soil surface. Groundwater was not encountered. Soil sampling results identified 10

contaminants of concern that exceeded at least one PADEP MSC. The Phase II ESA findings are found in the *Phase II Environmental Site Assessment, Frog, Switch & Manufacturing Company* report (Volpe, 2026b).

After a review of the Phase II ESA soil sampling data, the Site owner and PADEP determined that groundwater sampling would not be needed for future remediation activities under Pennsylvania's Land Recycling Act ('Act 2') Program based on the Site owner's intentions of pursuing a nonuse aquifer determination at the Site. The Borough of Carlise has a "must connect" ordinance which requires buildings to utilize municipal drinking water sources (Borough of Carlise). Additionally, the environmental covenant in place at the Site's landfill prohibits groundwater use across the Site. No soil sample results exceeded the soil-to-groundwater MSCs for a nonuse aquifer, therefore impacts to groundwater are not expected and further groundwater investigations are not warranted. EPA agreed with this determination and removed the planned groundwater investigation from the scope of the Phase II ESA.

Based on the Phase II ESA findings, a Notice of Intent to Remediate was prepared by BL Companies on behalf of the Site owner and was received by PADED in March 2026, formally entering the Site into the Act 2 Program. The Phase II ESA report recommended that a Supplemental Phase II ESA be conducted to include the collection of additional soil samples to delineate contaminated areas and collect background samples for arsenic, which is a naturally occurring contaminant of concern.

4.0 Supplemental Phase II Environmental Site Assessment Activities

Supplemental Phase II ESA activities were conducted as described in the FSP (Volpe, 2026a). Volpe standard operating procedures and quality assurance/quality control (QA/QC) requirements included in *Volpe Brownfields Generic Quality Assurance Project Plan* (Volpe, 2026c) (Generic QAPP) were additionally followed for applicable investigation activities. Photographs of investigation activities are included in Appendix A.

4.1 Utility Clearance

A locate request was submitted to the Pennsylvania One Call System prior to the commencement of soil boring activities. Vegetation clearing was conducted in the soil background study area located northeast of the landfill to provide access to the soil borings proposed there. From June 16 to 17, 2026, a technician from Sage, LLC was onsite with Volpe personnel and completed a private utility locate to clear each proposed boring location. The utility locate was performed using electromagnetic conductivity and GPR equipment to mark any buried utilities that were present in the vicinity of the proposed boring locations. At the discretion of the Volpe field operations manager, some boring locations were adjusted slightly to avoid either buried utilities or demolition debris piles, however all borings were able to be placed within the approximate vicinity of the locations proposed in the FSP.

4.2 Soil Boring Advancement

From June 20 to 24, 2026, Volpe and its contractor, Odyssey Environmental Services, Inc. of Dauphin, PA completed soil boring and soil sampling activities. A total of 35 soil borings were advanced using a track-mounted Geoprobe 7822DT at the marked locations. The borings intended for the delineation of contamination identified during the initial Phase II ESA were labeled FROG-SB-201 through FROG-SB-225 and are shown in Figure 2. The borings associated with the soil background study for arsenic were labeled FROG-SB-301 through FROG-SB-310 and are shown in Figure 3. The background study borings were located at an area that was determined not to be affected by a release at the property.

Soil was collected at each location using 2-inch diameter, 5-foot long macro-core samplers to a depth of 15 feet below the ground surface (ft. bgs) unless refusal was encountered at a shallower depth. If refusal that was not believed to be bedrock was encountered, at least one additional attempt at an offset location was advanced. All soil borings were advanced as proposed in the FSP.

Soil characteristics in the borings were consistent with those observed during the initial Phase II ESA. Soils consisted mainly of a silty clay material, often with loams, sands, or fill material in the top few feet of the soil surface. Soil is underlain by limestone, which was encountered at varying depths across the Site. Material suspected to be fill was observed at shallow depths in a few borings and generally consisted of sands or crushed stone and in some cases minor debris such as brick, glass, or other construction debris. The groundwater table was not encountered in any of the soil borings, although soil was sometimes observed to have a high moisture content in the few inches directly above the limestone layer. Soil characteristics at the background study area were determined to be representative of the rest of the Site.

An alternate soil background study area was prepared in case soil characteristics at the preferred background study area were not representative of the Site. This alternate area was not used.

Soil from each boring was field-screened for volatiles in six-inch intervals using a calibrated miniRAE 3000 PID with a 10.6 electron volt lamp. Petroleum-saturated soil and PID readings up to 152 parts per million were encountered in soil boring FROG-SB-212, which was located immediately adjacent to the southeast corner of the foundry complex in the vicinity of in the vicinity of the Old UST #2 system. Slightly elevated PID responses and/or petroleum-like odors were encountered in several other borings as shown in the boring logs, however no other borings exhibited petroleum-saturated soil or other signs of gross contamination. Photographs of soil borings are included in Appendix A. Soil boring logs are located in Appendix B.

4.3 Soil Sampling

Up to four soil samples were collected from each of the 25 borings intended for the delineation of previously-identified contamination (FROG-SB-201 through -225). One sample was collected from the soil surface, which is defined by PADEP as 0 to 2 ft. bgs and up to three were collected from the soil subsurface down to a depth of either 15 ft. bgs or refusal. If shallow refusal was encountered at a boring location, fewer than three subsurface samples were collected. Per the FSP, if foundry sand was observed at the surface of a boring location, the surficial sample was to be collected below the observed sand, however no foundry sand was observed at the surface of any borings.

Two samples were collected from each of the borings associated with the soil background study for arsenic. One from the surficial (0-2 ft. bgs) depth, and the second sample was collected from a subsurface depth between 2-15 ft. bgs. The depth from which the subsurface sample was grabbed at each boring was selected in the field at random based on site conditions (e.g. refusal depths) such that the samples would be representative of the entire subsurface interval.

Soil samples were placed directly by hand into appropriate containers for laboratory analysis and preserved according to the method requirements identified in the FSP. Clean nitrile gloves were donned for each sample. Sample containers were labeled with an identification corresponding to the Site name (FROG), sample type (SS for soil sample), boring location number, and collection depth in feet. For example, sample FROG-SS-201(0.0-2.0) was a soil sample collected at boring location 201 from a depth of 0 to 2 ft. bgs. Sample containers were placed in coolers on ice, which were picked up on-site each day by a lab courier.

A list of Supplemental Phase II ESA soil samples is provided in Table 1. Additional quality control samples, including field duplicate, field blank, matrix spike, and matrix spike duplicate samples were collected as described in the FSP.

4.4 Restoration

Following sample collection, any remaining material was returned to the boring from which it was removed. Soil from boring FROG-SB-212, which exhibited petroleum-saturated soil impacts was

containerized for disposal. Borings were backfilled with bentonite chips if additional material was needed to fill a borehole to grade. Metal nails with ribbon were placed at each boring location and photographed for future locating. Other investigation-derived wastes such as used PPE were placed into plastic garbage bags for disposal.

4.5 Laboratory Analysis

Samples were transported to Pace Analytical Services in Westborough, MA for analysis. Analyses for each sample were performed as proposed in the FSP and are based on the contaminant(s) of concern specific to each location. Depending on the sample location, one or more of the following contaminants of concern was analyzed: arsenic (As), cobalt (Co), iron (Fe), manganese (Mn), and nickel (Ni) by EPA Method 6010D and polycyclic aromatic hydrocarbons (PAHs) by EPA Method 8270E, which included 16 SVOCs, and total petroleum hydrocarbon (TPH) gasoline range organics (GRO) and diesel range organics (DRO) by EPA Method 8015D. The specific analyses performed on each sample are listed in Table 1.

4.6 Data Quality Assessment

All field-collected data records were scanned, saved, and evaluated as described in the Generic QAPP. These records, along with laboratory analytical data were reviewed for data quality and usability to ensure that the data meet the basic precision, accuracy, representativeness, completeness, comparability and sensitivity goals and other criteria described in the Generic QAPP. A memorandum prepared by Volpe that summarizes the findings of the data quality assessment is provided as Appendix C.

Analytical results and quality control data were reviewed to assess quality control elements, including but not limited to chain of custody, sample labels, sample containers, sample preservatives, holding times, field and laboratory quality control samples, regulatory criteria, and detection limits. The identified non-conformances to these QC elements were assessed to determine if the data are of sufficient quality to meet the data quality objectives of this investigation.

The data quality assessment found some cases of unacceptable matrix spike/matrix spike duplicate recoveries or relative percent differences for arsenic, iron, manganese, and nickel that indicate potential low, high, or non-directional bias. Additionally, four PAHs exhibited unacceptable relative percent differences between a field duplicate sample pair.

These nonconformances are further described in Appendix C where their potential to impact the data is discussed. Based on the identified QC non-conformances, some of the results of the laboratory analysis introduce uncertainty. In some cases, results are biased and/or poor precision exists in the field collection and/or analytical procedure, and the data may not be representative of the actual concentrations of the compounds at the Site. In instances where potentially biased analytes were either slightly above or below an applicable MSC, the impacts of this bias should be considered in determining any further investigation or remedial actions. However, based on a review of the QC non-conformances, it has been determined that the data analyzed as part of this investigation are usable to meet project data quality objectives.

4.7 Comparison to Regulatory Standards

Because redevelopment plans and future uses of the Site are still unknown, soil analytical data were compared to PADEP Statewide Health Standard MSCs for both residential and non-residential scenarios that are provided in 25 Pa. Code Chapter 250, Administration of the Land Recycling Program. These include:

- Direct contact numeric values for residential soil (0-15 feet)
- Direct contact numeric values for non-residential surface soil (0-2 feet)
- Direct contact numeric values non-residential subsurface soil (2-15 feet)
- Soil-to-groundwater numeric values at a used aquifer with total dissolved solids less than 2,500 mg/L for residential soil (the higher of either the generic value or 100 times the groundwater MSC)
- Soil-to-groundwater numeric values at a used aquifer with total dissolved solids less than 2,500 mg/L for non-residential soil (the higher of either the generic value or 100 times the groundwater MSC)
- Soil-to-groundwater numeric values at a nonuse aquifer for residential soil (the higher of either the generic value or 100 times the groundwater MSC)
- Soil-to-groundwater numeric values at a nonuse aquifer for non-residential soil (the higher of either the generic value or 100 times the groundwater MSC)

Any analyte detected in a soil sample above any of these MSCs has been flagged as a contaminant of concern for the Site. Analytes may be removed from this list in the future once the applicable statewide health standard has been determined. The Site owner is currently in discussions with PADEP regarding a nonuse aquifer determination for the property, which would allow the applicable, less stringent soil to groundwater MSCs to be used at the Site.

4.8 Soil Background Study

Soil sampling data was analyzed from the ten surficial (0-2 ft. bgs) and ten subsurface (2-15 ft. bgs) soil samples that were collected from ten borings located within the soil background study area, which was located in the wooded portion of the property northeast of the landfill (Figure 3). This area was identified as an area free of contamination from any release at the Site or nearby off-property areas, and representative of background conditions for the Site, including soil type; physical, chemical, or biological characteristics; and depth below ground surface as discussed in Subsection II.B.1(d) of the Land Recycling Program Technical Guidance Manual (PADEP, 2019).

25 Pa. Code Chapter 250.707(a)(1) allows for one of the following three statistical methods to be used to demonstrate attainment of the background standard:

- Demonstrating that the highest concentration from the area of concern is not greater than the highest measurement from the background area
- Wilcoxon rank-sum and quantile tests to compare the area of concern and background area populations
- Other appropriate statistical methods that meet performance criteria

Since various statistical methods and assumptions may be used to demonstrate attainment of the background standard, Volpe has prepared the analytical data for the Site owner to conduct the appropriate statistical analyses and to establish a soil background standard for arsenic in coordination with PADEP for review and approval. Volpe will assist, if requested by the Site owner, in performing the statistical analysis with EPA's ProUCL tool as described in the FSP.

5.0 Analytical Results

A summary of the Supplemental Phase II ESA analytical results is provided below and summarized in Tables 2 through 4. Supplemental Phase II ESA exceedances of Direct Contact MSCs are highlighted in Table 2, exceedances of Used Aquifer Soil-to-Groundwater MSCs are highlighted in Table 3, and exceedances of Nonuse Aquifer Soil-to-Groundwater MSCs are highlighted in Table 4. Figures showing the Direct Contact MSC exceedances of each contaminant of concern are shown in Figures 4 through 8. Summary tables including the combined results of both the Phase II and Supplemental Phase II ESAs are provided in Appendix D. Laboratory analytical reports are provided in Appendix E.

Arsenic

Arsenic was detected in all Supplemental Phase II ESA on-Site soil samples at concentrations ranging from 1.55 to 55.5 mg/kg. Twenty-one of these additional samples exceeded the Direct Contact Residential MSC of 12 mg/kg and four of these additional samples exceeded the Used-Aquifer Soil to Groundwater Residential and Non-Residential MSCs of 29 mg/kg. Exceedances were observed in both surficial and subsurface soil samples.

Samples collected from the background study area (samples FROG-SS-301 through FROG-SS-310) had arsenic concentrations ranging from 5.36 to 10.1 mg/kg in surficial samples and from 4.76 to 24.3 mg/kg in subsurface samples.

Cobalt

Cobalt was detected in all Supplemental Phase II ESA soil samples for which it was analyzed at concentrations ranging from 4.80 to 75.1 mg/kg. One of these additional samples exceeded the Direct Contact Residential MSC of 66 mg/kg and three of these additional samples exceeded the Used-Aquifer Soil to Groundwater Residential and Non-Residential MSCs of 45 mg/kg.

Iron

Iron was detected in all Supplemental Phase II ESA soil samples for which it was analyzed at concentrations ranging from 31,200 to 144,00 mg/kg. None of these additional samples exceeded an MSC.

Manganese

Manganese was detected in all Supplemental Phase II ESA soil samples for which it was analyzed at concentrations ranging from 189 to 51,600 mg/kg. One of these additional samples exceeded the Direct Contact Residential MSC of 31,000 mg/kg and four of these additional samples exceeded the Used-Aquifer Soil to Groundwater Residential and Non-Residential MSCs of 2,000 mg/kg.

Nickel

Nickel was detected in all Supplemental Phase II ESA soil samples for which it was analyzed at concentrations ranging from 10.9 to 599 mg/kg. None of these additional samples exceeded an MSC.

PAHs

PAHs were detected in some of the Supplemental Phase II ESA samples for which they were analyzed. In sample FROG-SS-222(4.0-4.5), benzo(b)fluoranthene was detected at a concentration of 6.4 mg/kg, which

exceeds the Direct Contact Residential MSC of 3.5 mg/kg; and benzo(a)pyrene was detected at a concentration of 4.8 mg/kg, which exceeds the Direct Contact Residential MSC of 4.2 mg/kg. An additional soil sample was collected and analyzed for PAHs from the boring where petroleum-saturated soil was encountered. This sample, FROG-SS-212(5.0-7.0), contained 2-methylnapthalene at a concentration of 69 mg/kg, which exceeds the Direct Contact Residential MSC of 57 mg/kg and the Used-Aquifer Soil to Groundwater Residential MSC of 25 mg/kg.

Total Petroleum Hydrocarbons

Soil sample FROG-SS-212(5.0-7.0) was collected from the soil boring where petroleum-saturated soil was encountered and analyzed for TPH-GRO) and TPH-DRO. This sample and analysis were not included in the FSP but was added due to the gross contamination that was discovered. TPH-GRO was detected at a concentration of 200 mg/kg and TPH-DRO was detected at a concentration of 7,800 mg/kg. MSCs are not provided for TPH, however these results indicate the potential presence of legacy contamination from a prior release of a petroleum product that may warrant further investigation. A photograph of these impacts is shown in Appendix A, Photograph 74.

6.0 Findings and Recommendations

6.1 Findings

Volpe conducted a Supplemental Phase II ESA at the Site to delineate areas of contamination identified during the Phase II ESA and to further evaluate the presence of arsenic, a naturally occurring contaminant of concern, to support establishing a background standard.

Delineation sampling results found that:

- Arsenic exceedances of the Residential Direct Contact MSC are generally persistent throughout parts of the site and are not fully delineated. Inside of the Frog Shop building, no arsenic exceedances were found between 0-15 ft. bgs (where Direct Contact MSCs apply). None of the Supplemental Phase II ESA samples exceeded the Non-Residential Direct Contact MSC for arsenic.
- Cobalt Residential Direct Contact MSC exceedances were mostly delineated within the southeast corner of the foundry complex and appear limited to the top five feet of soil, however impacts may continue west beneath the foundry complex. None of the Supplemental Phase II ESA samples exceeded the Non-Residential Direct Contact MSC for cobalt.
- Iron Residential and Non-Residential Direct Contact MSC exceedances appear limited to a surficial soil hotspot in the northern portion of the scrapyard, as none of the Supplemental Phase II ESA delineation sample results showed any exceedances.
- Manganese Residential Direct Contact MSC exceedances appear limited to a surficial soil in the northern and western portion of the scrapyard. None of the Supplemental Phase II ESA samples exceeded the Non-Residential Direct Contact MSC for manganese.
- PAH Residential Direct Contact MSC exceedances appear limited to surficial soil in the area of staining outside of the Frog Shop former drum storage shed and to the top five feet of soil in the area north of the Dry Storage Building. PAH impacts were also identified in the southeast corner of the foundry complex where petroleum-saturated soil was encountered. This area has been delineated towards the east but impacts may continue west beneath the foundry complex.

While delineating contamination at the southeast corner of the foundry complex, petroleum-saturated soil was encountered at soil boring FROG-SB-212, which is located immediately adjacent to the foundry complex in the vicinity of piping near “Old UST #2”. Petroleum-saturation was encountered between 5 to 7 ft. bgs. The extent of petroleum-saturated soil appears to have been delineated to the east but may continue west beneath the foundry complex.

The arsenic background sampling results found that soil characteristics in the chosen background study area were representative of the Site and contained no obvious signs of contamination by PID, visual, or olfactory observations. Background concentrations of arsenic ranged from 5.36 to 10.1 mg/kg in surficial samples and from 4.76 to 24.3 mg/kg in subsurface samples.

In relation to RECs identified during the 2025 Phase I ESA the combined findings of both the Phase II and

Supplemental Phase II ESAs indicate that:

- Historical industrial and manufacturing uses of the Site have likely contributed to the metals contamination in surficial and subsurface soil and foundry sand across the Site. Direct Contact MSC exceedances of arsenic, cobalt, iron, and manganese were identified in several former operational areas of the Site.
- In the vicinity of the septic tank and sinkholes, no contamination exceeding Direct Contact MSCs was identified, however, used aquifer soil-to-groundwater MSC exceedances of manganese and nickel were identified, which may be related to helmet washing and stormwater containment practices. However, manganese and nickel have been identified at other areas of the Site and may be due to other historical uses and past manufacturing operations.
- Outdoor areas of surficial staining where petroleum products and equipment were stored were contaminated with PAHs exceeding Residential Direct Contact MSCs, but were generally limited to surficial (or near surficial) soils. Fill material sampled from borings horizontally offset from the observed staining did not show any PAH exceedances, indicating that the contamination is likely related to onsite releases rather than contaminated fill material. PAH contamination is present beneath the staining north of the former Dry Storage building and east of the Frog Shop former drum storage shed. PAHs were not detected in areas within buildings where staining was observed.
- PCB impacts to soil were not encountered in the vicinity of the electrical substation.
- Petroleum-saturated soil potentially associated with a former UST system was observed along the southeast corner of the foundry complex at soil boring location FROG-SB-212, in the vicinity of Old UST #2. No other signs of the USTs that were included as RECs or associated contamination were observed.
- Metals contamination was identified in surficial soil at the scrapyard grabber area but is consistent with metals contamination encountered across the Site and may not necessarily be related to releases from the scrapyard grabber.
- No impacts from a potential offsite release from the MGP were identified. Manganese was the only contaminant identified above an MSC in soil adjacent to the former MGP Plant, however manganese contamination was encountered in other areas of the Site and may not be associated with the off-site MGP.

Contaminants of concern are summarized in Table 5.

6.2 Recommendations

Based on the findings of the Phase II ESA, it is recommended that:

1. Evidence of petroleum impacts identified at soil boring location FROG-SB-212 should be further investigated to determine the source and extent of contamination at this location, which is likely associated with a former UST system. This may include additional sampling of soil or other

potentially affected media, exploratory excavation, or other assessments to determine the extent of impacts. The Property Owner should evaluate potential requirements to report this legacy contamination to PADEP. Where impacts were observed immediately adjacent to the foundry complex, sampling within the building footprint may be necessary.

2. Analytical data collected from the background study area should be further analyzed to determine if arsenic concentrations present at the Site may be associated with natural background. If appropriate, the data should be used to establish a soil background standard for arsenic at the Site in accordance with 25 Pa. Code Chapter 250.201 Subchapter B. *Background Standard* and the "Process Checklist for the Background Standard" located on page II-28 of the Land Recycling Program Technical Guidance Manual (PADEP, 2019).
3. Future Site uses (i.e. residential vs. non-residential) should be determined to identify the applicable Pennsylvania statewide health standards that would dictate Site cleanup objectives. Additionally, if the Site owner wishes to pursue the non-use aquifer soil-to-groundwater MSCs, a formal non-use aquifer determination from PADEP should be requested in accordance with 25 Pa. Code Chapter Section 250.303.
4. Once appropriate cleanup standards and future site uses have been determined, additional sampling may be appropriate to further delineate the extent of areas targeted for remediation. As discussed in the Findings Section, sampling beneath the foundry complex may be required to delineate cobalt and PAHs. Additionally, while Direct Contact MSC exceedances for other contaminants have generally been horizontally delineated, the distance between sample locations extends as far as 50 feet. Closer step out borings around areas of staining, the scrapyard, and the southeast corner of the foundry complex may be appropriate to refine remediation plans.
5. During the demolition of the remaining Site structures, hazardous building materials that have been identified should be abated in accordance with all applicable regulations. Additionally, the contaminated foundry sand should be handled in a manner that minimizes the spread of contamination to other areas of the Site. The collection of additional foundry sand samples for waste characterization may be needed to inform disposal decisions.
6. Site workers performing future site investigation or property redevelopment work should use caution when disturbing or coming into contact with contaminated soil. Appropriate engineering controls and practices outlined in health and safety plans should be utilized as needed.

6.3 Limitations

The United States Department of Transportation John A. Volpe National Transportation Systems Center performed the services for this project under an Interagency Agreement with the United States Environmental Protection Agency Region 3 Targeted Brownfields Assessment Program. This report has been produced for the primary benefit of the EPA Region 3 Targeted Brownfields Assessment Program and the TBA applicant. The services described in this report are consistent with the professional standard of care and the conclusions are based on internally peer-reviewed interpretations made by experienced

environmental professionals. This report does not guarantee that no further contamination, beyond that which could be detected within the scope of this assessment, is present at the Site. This report is based on the regulatory standards in effect on the date of the report, and events may occur at the Site after the assessment was completed which may result in contamination. This report relies on reports and records obtained from outside organizations that are assumed to be accurate.

7.0 References

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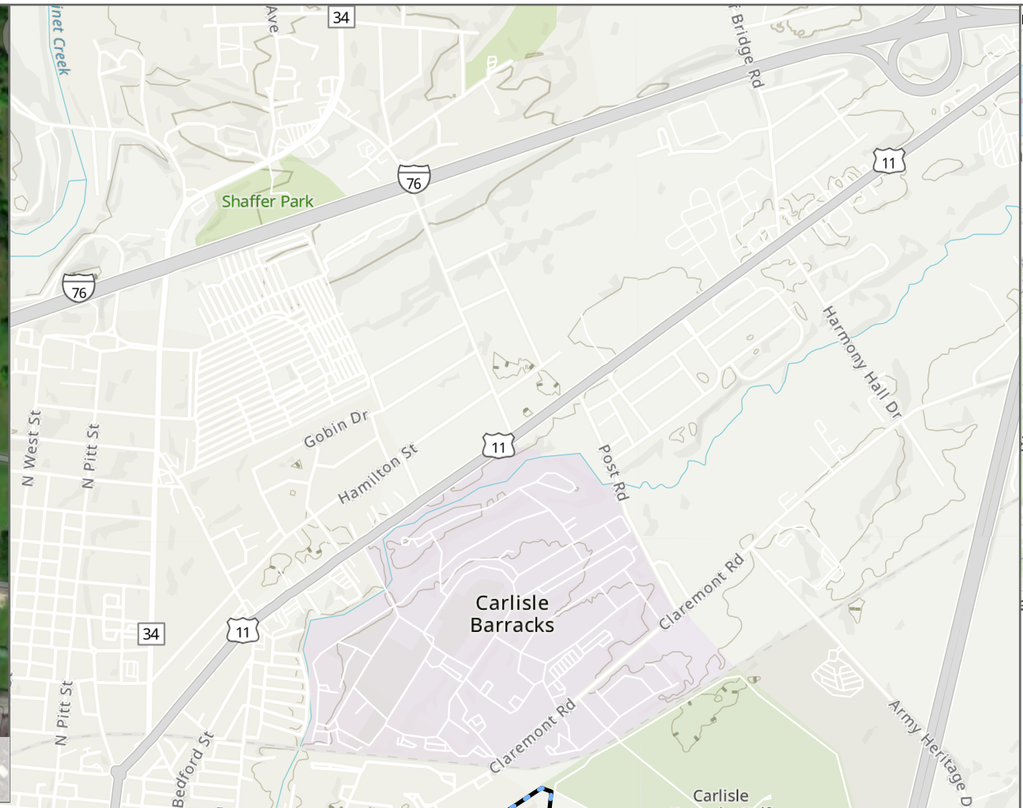
Figures







Property Boundary (approx.)

Tax Parcels

Site Location

Spatial Reference:
NAD 1983 StatePlane Pennsylvania South FIPS 3702 Feet
Upper Left: 2113009.54E 326652.55N ft

Sources: Vantor, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, Esri, USGS

0 0.25 0.5 0.75 1 Miles

N

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Figure 1
Site Location

Supplemental Phase II ESA
Frog, Switch & Manufacturing Company
600 East High Street, Carlisle, PA

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August 2026



Legend

- Phase II Soil Boring
- Supplemental Phase II Soil Boring
- Phase II Surficial Soil Sample
- Phase II Foundry Sand Composite Sample
- Recognized Environmental Condition
- Property Boundary (approx.)

Notes:

1) Soil samples were collected during the October 2025 Phase II (ID: 100s) and the June 2026 Supplemental Phase II (ID: 200s).

2) Recognized Environmental Conditions shown as described in the Phase I ESA Report plus the July 2025 fire at the Frog Shop.

3) Soil boring locations have been professionally surveyed.

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Figure 2
Soil Sample Locations

Supplemental Phase II ESA
Frog, Switch & Manufacturing Company
600 East High Street, Carlisle, PA

Spatial Reference:
NAD 1983 StatePlane Pennsylvania South FIPS 3702 Feet
Upper Left: 2127947.43E 317338.47N ftUS

Sources: Vantor, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

0 100 200 300 400 Feet

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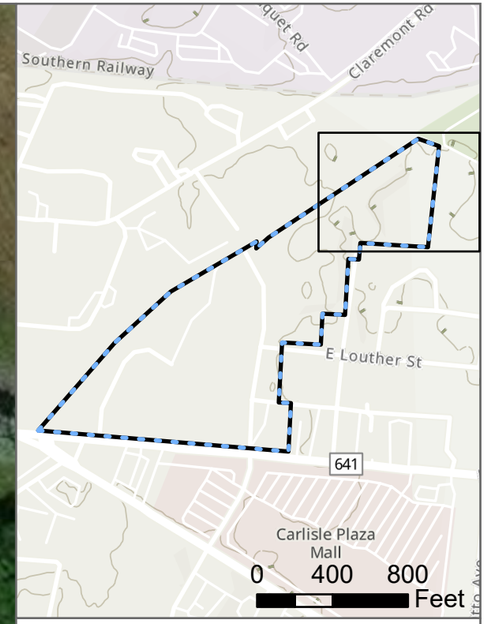

Legend

- Background Soil Boring
- Background Study Area
- Property Boundary (approx.)

Notes:

1) Background study soil samples were collected during the June 2026 Supplemental Phase II (ID: 300s).

2) Soil boring locations have been professionally surveyed.

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Figure 3
Background Study Locations

Supplemental Phase II ESA
Frog, Switch & Manufacturing Company
600 East High Street, Carlisle, PA

Spatial Reference:
NAD 1983 StatePlane Pennsylvania South FIPS 3702 Feet
Upper Left: 2129448.21E 318069.46N ftUS

Sources: Microsoft, Vantor, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

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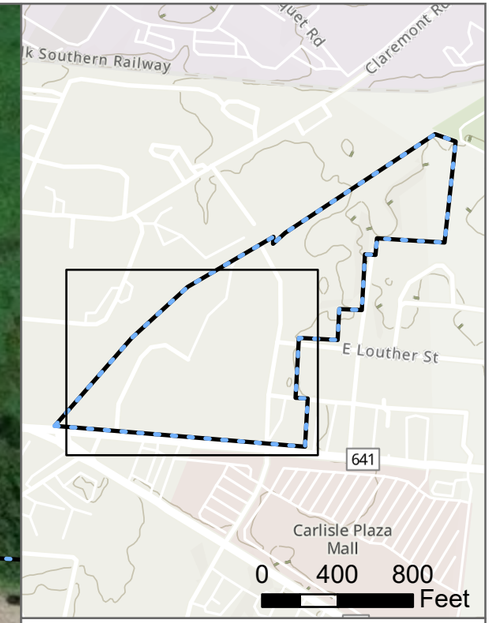

Legend

Property Boundary (approx.)

Arsenic Sample Locations

- Samples below Direct Contact MSC
- At least one sample exceeds Residential Direct Contact MSC
- At least one sample exceeds Non-Residential Direct Contact MSC
- Samples not analyzed for arsenic

Phase II ♦ Supplemental Phase II

Notes:

Direct Contact MSCs for arsenic are:
12 mg/kg (Residential 0-15 ft. bgs)
61 mg/kg (Non-Residential 0-2 ft. bgs)
190,000 mg/kg (Non-Residential 2-15 ft. bgs)

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Figure 4
Arsenic Direct Contact MSC Soil Exceedances

Supplemental Phase II ESA
Frog, Switch & Manufacturing Company
600 East High Street, Carlisle, PA

Spatial Reference:
NAD 1983 StatePlane Pennsylvania South FIPS 3702 Feet
Upper Left: 2128021.32E 317317.68N ftUS

Sources: Vantor, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

0 80 160 240 320 Feet

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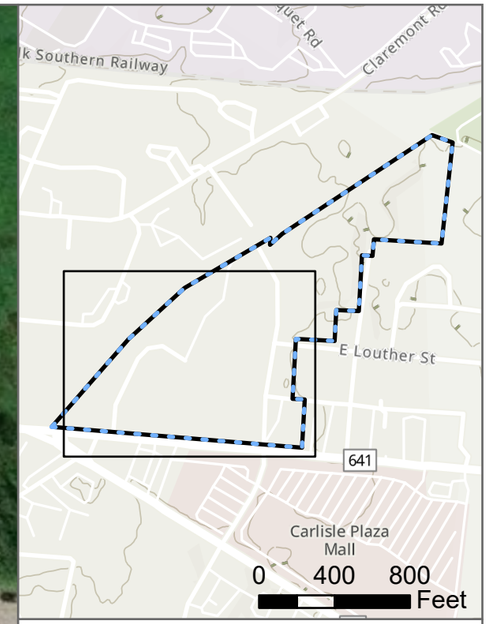

Legend

- Property Boundary (approx.)

Cobalt Sample Locations

- Samples below Direct Contact MSC
- At least one sample exceeds Residential Direct Contact MSC
- Samples not analyzed for cobalt

● Phase II ♦ Supplemental Phase II

Notes:

Direct Contact MSCs for cobalt are:
66 mg/kg (Residential 0-15 ft. bgs)
960 mg/kg (Non-Residential 0-2 ft. bgs)
190,000 mg/kg (Non-Residential 2-15 ft. bgs)

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Figure 5
Cobalt Direct Contact MSC
Soil Exceedances

Supplemental Phase II ESA
Frog, Switch & Manufacturing Company
600 East High Street, Carlisle, PA

Spatial Reference:
NAD 1983 StatePlane Pennsylvania South FIPS 3702 Feet
Upper Left: 2128023.44E 317315.08N ftUS

Sources: Vantor, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

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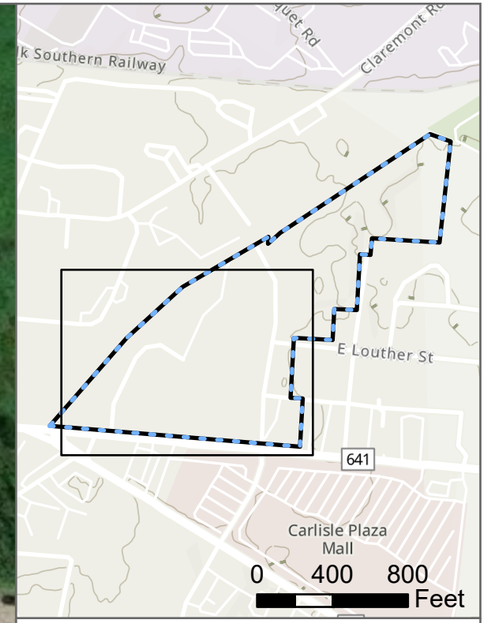

Legend

Property Boundary (approx.)

Iron Sample Locations

- Samples below Direct Contact MSC
- At least one sample exceeds Residential Direct Contact MSC
- At least one sample exceeds Non-Residential Direct Contact MSC
- Samples not analyzed for iron

Phase II ♦ Supplemental Phase II

Notes:

Direct Contact MSCs for iron are:
150,000 mg/kg (Residential 0-15 ft. bgs)
190,000 mg/kg (Non-Residential 0-2 ft. bgs)
190,000 mg/kg (Non-Residential 2-15 ft. bgs)

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Figure 6
Iron Direct Contact MSC
Soil Exceedances

Supplemental Phase II ESA
Frog, Switch & Manufacturing Company
600 East High Street, Carlisle, PA

Spatial Reference:
NAD 1983 StatePlane Pennsylvania South FIPS 3702 Feet
Upper Left: 2128021.32E 317317.68N ftUS

Sources: Vantor, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

0 80 160 240 320
Feet

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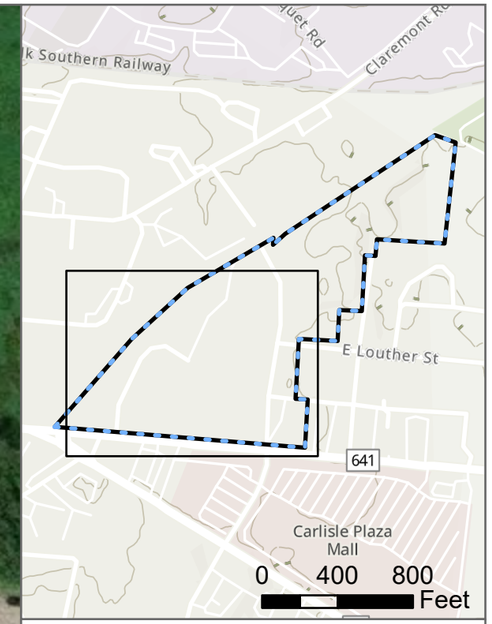

Legend

- Property Boundary (approx.)

Manganese Sample Locations

- Samples below Direct Contact MSC
- At least one sample exceeds Residential Direct Contact MSC
- Samples not analyzed for manganese

● Phase II ♦ Supplemental Phase II

Notes:

Direct Contact MSCs for manganese are:
31,000 mg/kg (Residential 0-15 ft. bgs)
190,000 mg/kg (Non-Residential 0-2 ft. bgs)
190,000 mg/kg (Non-Residential 2-15 ft. bgs)

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Figure 7
Manganese Direct Contact MSC Soil Exceedances

Supplemental Phase II ESA
Frog, Switch & Manufacturing Company
600 East High Street, Carlisle, PA

Spatial Reference:
NAD 1983 StatePlane Pennsylvania South FIPS 3702 Feet
Upper Left: 2128021.32E 317317.68N ftUS

Sources: Microsoft, Vantor, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

0 80 160 240 320 Feet

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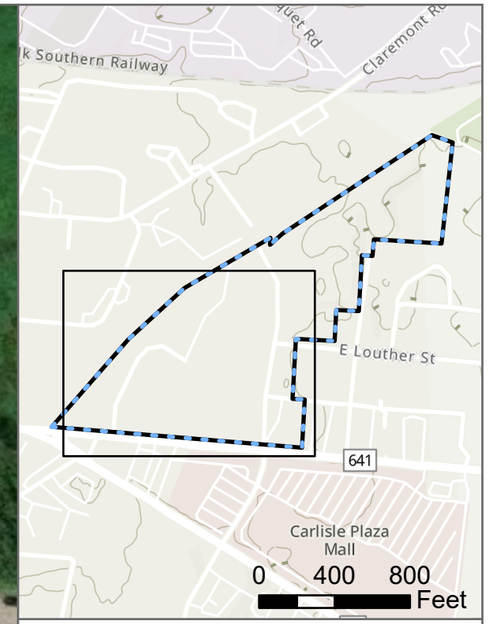

Legend

Property Boundary (approx.)

PAH Sample Locations

- Samples below Direct Contact MSC
- At least one sample contains PAH exceedint Residential Direct Contact MSC
- Samples not analyzed for PAHs
  - ● Phase II ♦ Supplemental Phase II

Notes:

1) See report tables for MSCs of individual polycyclic aromatic hydrocarbons (PAHs)

2) Abbreviations
2MeNPT: 2-methylnapthalene
B(a)A: benzo(a)anthracene
B(b)F: benzo(b)fluoranthene
B(a)P: benzo(a)pyrene
I123cdP: indeno(1,2,3-cd)pyrene

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Figure 8
PAHs Direct Contact MSC
Soil Exceedances

Supplemental Phase II ESA
Frog, Switch & Manufacturing Company
600 East High Street, Carlisle, PA

Spatial Reference:
NAD 1983 StatePlane Pennsylvania South FIPS 3702 Feet
Upper Left: 2128021.32E 317317.68N ftUS

Sources: Microsoft, Vantor, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

0 80 160 240 320 Feet

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Tables

Table 1: Summary of Sample Locations

Location ID	Location Description	Date	Northing (US ft.)	Easting (US ft.)	Ground Surface Elevation (US ft.)	Boring Depth to Refusal (US ft.)	Potential Sources of Contamination	Sample ID	Laboratory Analysis
FROG-SB-201	North offset of FROG-SB-118	June 2026	316668.7	2128678.0	455.5	15.0 (no refusal)	Historical Industry, Scrapyard Grabber	FROG-SS-201(1.0-2.0)	As
								FROG-SS-201(4.5-5.0)	As
								FROG-SS-201(9.5-10.)	As
								FROG-SS-201(14.5-15.0)	As
FROG-SB-202	East offset of FROG-SB-118	June 2026	316634.5	2128746.7	456.4	9.5	Historical Industry, Scrapyard Grabber	FROG-SS-202(1.0-2.0)	As
								FROG-SS-202(5.0-5.5)	As
								FROG-SS-202(7.5-8.0)	As
								FROG-SS-202(9.0-9.5)	As
FROG-SB-203	South offset of FROG-SB-118	June 2026	316622.6	2128725.2	456.1	2.0	Historical Industry, Scrapyard Grabber	FROG-SS-203(1.5-2.0)	As
FROG-SB-204	West offset of FROG-SB-118	June 2026	316627.1	2128666.7	455.2	4.0	Historical Industry, Scrapyard Grabber	FROG-SS-204(1.0-2.0)	As
								FROG-SS-204(3.5-4.0)	As
FROG-SB-205	North offset of FROG-SB-119	June 2026	316756.1	2128716.5	456.1	4.0	Historical Industry, Scrapyard Grabber	FROG-SS-205(1.0-2.0)	As, Fe, Mn
								FROG-SS-DUP-202	As, Fe, Mn; Duplicate of FROG-SS-205(1.0-2.0)
								FROG-SS-205(3.5-4.0)	As, Fe, Mn
FROG-SB-206	East offset of FROG-SB-119	June 2026	316711.1	2128795.2	456.5	11.0	Historical Industry, Scrapyard Grabber	FROG-SS-206(0.5-2.0)	As, Fe, Mn
								FROG-SS-206(4.5-5.0)	As, Fe, Mn
								FROG-SS-206(9.5-10.0)	As, Fe, Mn
								FROG-SS-206(10.5-11.0)	As, Fe, Mn
FROG-SB-207	South offset of FROG-SB-119	June 2026	316663.8	2128761.1	456.2	7.0	Historical Industry, Scrapyard Grabber	FROG-SS-207(0.5-2.0)	As, Fe, Mn
								FROG-SS-207(4.5-5.0)	As, Fe, Mn
								FROG-SS-207(5.5-6.0)	As, Fe, Mn
								FROG-SS-207(6.5-7.0)	As, Fe, Mn
FROG-SB-208	West offset of FROG-SB-119	June 2026	316719.8	2128702.8	455.5	12.5	Historical Industry, Scrapyard Grabber	FROG-SS-208(0.0-2.0)	As, Fe, Mn
								FROG-SS-208(4.5-5.0)	As, Fe, Mn
								FROG-SS-208(9.5-10.0)	As, Fe, Mn
								FROG-SS-208(12.0-12.5)	As, Fe, Mn
FROG-SB-209	North offset of FROG-SB-103/105	June 2026	316476.3	2128996.3	456.7	15.0 (no refusal)	Historical Industry, USTs	FROG-SS-209(0.0-2.0)	As, Co
								FROG-SS-209(4.5-5.0)	As, Co
								FROG-SS-209(9.5-10.0)	As, Co
								FROG-SS-209(14.5-15.0)	As, Co
FROG-SB-210	East offset of FROG-SB-103/105	June 2026	316447.9	2129043.2	456.6	15.0(no refusal)	Historical Industry, USTs	FROG-SS-210(0.0-2.0)	As, Co
								FROG-SS-210(4.5-5.0)	As, Co
								FROG-SS-210(9.5-10.0)	As, Co
								FROG-SS-210(14.5-15.0)	As, Co
FROG-SB-211	South offset of FROG-SB-103/105	June 2026	316422.1	2129003.6	457.9	10.5	Historical Industry, USTs	FROG-SS-211(0.0-2.0)	As, Co
								FROG-SS-211(4.5-5.0)	As, Co
								FROG-SS-211(7.5-8.0)	As, Co
								FROG-SS-211(10.0-10.5)	As, Co

Table 1: Summary of Sample Locations

Location ID	Location Description	Date	Northing (US ft.)	Easting (US ft.)	Ground Surface Elevation (US ft.)	Boring Depth to Refusal (US ft.)	Potential Sources of Contamination	Sample ID	Laboratory Analysis
FROG-SB-212	West offset of FROG-SB-103/105	June 2026	316430.4	2128961.8	457.3	14.0	Historical Industry, USTs	FROG-SS-212(0.0-2.0)	As, Co
								FROG-SS-212(4.5-5.0)	As, Co
								FROG-SS-212(5.0-7.0)	TPH-GRO and TPH-DRO
								FROG-SS-212(9.5-10.0)	As, Co
								FROG-SS-212(13.5-14.0)	As, Co
FROG-SB-213	North offset of FROG-SB-108	June 2026	316490.7	2129163.2	457.7	15.0 (no refusal)	USTs	FROG-SS-213(0.0-2.0)	As, Ni
								FROG-SS-213(4.5-5.0)	As, Ni
								FROG-SS-213(9.5-10.0)	As, Ni
								FROG-SS-213(14.5-15.0)	As, Ni
FROG-SB-214	East offset of FROG-SB-108	June 2026	316437.7	2129185.9	457.9	9.5	USTs	FROG-SS-214(0.0-2.0)	As
								FROG-SS-214(4.0-4.5)	As
								FROG-SS-214(5.0-5.5)	As
								FROG-SS-214(9.0-9.5)	As
FROG-SB-215	South offset of FROG-SB-108	June 2026	316420.1	2129147.9	458.3	15.0 (no refusal)	USTs	FROG-SS-215(0.0-2.0)	As
								FROG-SS-215(4.5-5.0)	As
								FROG-SS-DUP-201	As; Duplicate of FROG-SS-215(4.5-5.0)
								FROG-SS-215(9.5-10.0)	As
								FROG-SS-215(14.5-15.0)	As
FROG-SB-216	West offset of FROG-SB-108	June 2026	316443.2	2129111.7	458.6	8.0	USTs	FROG-SS-216(0.0-2.0)	As
								FROG-SS-216(4.5-5.0)	As
								FROG-SS-216(6.0-7.0)	As
								FROG-SS-216(7.5-8.0)	As
FROG-SB-217	North offset of FROG-SB-121	June 2026	316879.5	2129042.6	455.3	12.0	Historical Industry, Staining	FROG-SS-217(0.0-2.0)	As, Ni, PAHs
								FROG-SS-217(4.0-5.0)	As, Ni, PAHs
								FROG-SS-217(9.0-10.0)	As, Ni, PAHs
								FROG-SS-217(11.0-12.0)	As, Ni, PAHs
FROG-SB-218	East offset of FROG-SB-121	June 2026	316810.3	2129074.0	456.9	12.0	Historical Industry, Staining	FROG-SS-218(0.0-2.0)	As, PAHs
								FROG-SS-218(4.0-5.0)	As, PAHs
								FROG-SS-218(9.0-10.0)	As, PAHs
								FROG-SS-218(11.0-12.0)	As, PAHs
FROG-SB-219	South offset of FROG-SB-121	June 2026	316772.7	2129024.6	455.1	6.5	Historical Industry, Staining	FROG-SS-219(0.0-2.0)	As, PAHs
								FROG-SS-DUP-204	As, PAHs; Duplicate of FROG-SS-219(0.0-2.0)
								FROG-SS-219(4.0-5.0)	As, PAHs
								FROG-SS-219(5.5-6.5)	As, PAHs
FROG-SB-220	North offset of FROG-SB-120	June 2026	316868.4	2129166.8	458.0	6.0	Historical Industry, Staining	FROG-SS-220(0.0-2.0)	As, Ni, PAHs
								FROG-SS-220(4.0-5.0)	As, Ni, PAHs
								FROG-SS-DUP-203	As, Ni, PAHs; Duplicate of FROG-SS-220(4.0-5.0)
								FROG-SS-220(5.5-6.0)	As, Ni, PAHs

Table 1: Summary of Sample Locations

Location ID	Location Description	Date	Northing (US ft.)	Easting (US ft.)	Ground Surface Elevation (US ft.)	Boring Depth to Refusal (US ft.)	Potential Sources of Contamination	Sample ID	Laboratory Analysis
FROG-SB-221	East offset of FROG-SB-120	June 2026	316814.2	2129210.7	459.1	15.0 (no refusal)	Historical Industry, Staining	FROG-SS-221(0.0-2.0)	As, PAHs
								FROG-SS-221(4.0-5.0)	As, PAHs
								FROG-SS-221(9.0-10.0)	As, PAHs
								FROG-SS-221(14.0-15.0)	As, PAHs
FROG-SB-222	South offset of FROG-SB-120	June 2026	316785.8	2129153.7	458.2	11.5	Historical Industry, Staining	FROG-SS-222(0.0-2.0)	As, PAHs
								FROG-SS-222(4.0-4.5)	As, PAHs
								FROG-SS-222(9.0-10.0)	As, PAHs
								FROG-SS-222(10.5-11.5)	As, PAHs
FROG-SB-223	West offset of FROG-SB-120	June 2026	316822.9	2129107.5	458.0	11.5	Historical Industry, Staining	FROG-SS-223(0.0-2.0)	As, PAHs
								FROG-SS-223(4.0-5.0)	As, PAHs
								FROG-SS-223(9.0-10.0)	As, PAHs
								FROG-SS-223(10.5-11.5)	As, PAHs
FROG-SB-224	Adjacent to FROG-SB-122	June 2026	316751.7	2128916.5	455.3	15.0 (no refusal)	Historical Industry, Staining	FROG-SS-224(0.0-2.0)	As
								FROG-SS-224(4.5-5.0)	As
								FROG-SS-224(9.5-10.0)	As
								FROG-SS-224(14.5-15.0)	As
FROG-SB-225	Adjacent to FROG-SB-123	June 2026	317093.3	2128982.2	455.3	15.0 (no refusal)	Historical Industry, Staining	FROG-SS-225(0.0-2.0)	As
								FROG-SS-225(4.5-5.0)	As
								FROG-SS-225(9.5-10.0)	As
								FROG-SS-225(14.5-15.0)	As
FROG-SB-301	Soil Background Area	June 2026	317996.3	2129999.0	459.8	11.0	None	FROG-SS-301(0.0-2.0)	As
								FROG-SS-301(9.0-9.5)	As
FROG-SB-302	Soil Background Area	June 2026	317910.9	2130008.7	457.7	7.5	None	FROG-SS-302(0.0-2.0)	As
								FROG-SS-DUP-301	As; Duplicate of FROG-SS-302(0.0-2.0)
								FROG-SS-302(6.5-7.0)	As
FROG-SB-303	Soil Background Area	June 2026	317911.0	2130039.8	458.0	6.0	None	FROG-SS-303(0.0-2.0)	As
								FROG-SS-303(4.5-5.0)	As
FROG-SB-304	Soil Background Area	June 2026	317756.1	2130001.9	453.6	15.0 (no refusal)	None	FROG-SS-304(0.0-2.0)	As
								FROG-SS-304(14.5-15.0)	As
FROG-SB-305	Soil Background Area	June 2026	317741.3	2130040.5	456.1	7.5	None	FROG-SS-305(0.0-2.0)	As
								FROG-SS-305(7.0-7.5)	As
FROG-SB-306	Soil Background Area	June 2026	317710.0	2129997.1	452.9	9.5	None	FROG-SS-306(0.0-2.0)	As
								FROG-SS-306(3.0-3.5)	As
FROG-SB-307	Soil Background Area	June 2026	317690.5	2129972.4	453.9	10.5	None	FROG-SS-307(0.0-2.0)	As
								FROG-SS-307(8.0-8.5)	As
FROG-SB-308	Soil Background Area	June 2026	317648.1	2129975.1	455.4	15.0 (no refusal)	None	FROG-SS-308(0.0-2.0)	As
								FROG-SS-308(6.5-7.0)	As
FROG-SB-309	Soil Background Area	June 2026	317614.2	2129973.9	454.9	8.0	None	FROG-SS-309(0.0-2.0)	As
								FROG-SS-309(4.0-4.5)	As

Table 1: Summary of Sample Locations

Location ID	Location Description	Date	Northing (US ft.)	Easting (US ft.)	Ground Surface Elevation (US ft.)	Boring Depth to Refusal (US ft.)	Potential Sources of Contamination	Sample ID	Laboratory Analysis
FROG-SB-310	Soil Background Area	June 2026	317588.7	2129953.0	454.5	9.0	None	FROG-SS-310(0.0-2.0)	As
								FROG-SS-310(4.5-5.0)	As

Notes:

1. This table does not include matrix spike/matrix spike duplicate, field blank, and equipment blank quality control samples.
2. The sample depth (in feet below the ground surface) is shown in the Sample ID parenthesis. Some depths have been corrected and may differ from the laboratory analytical report.
3. Northing and Easting coordinates are based on NAD 83 StatePlane Pennsylvania South FIPS 3702 (US Feet). Ground surface elevation is based on the NorthAmerican Vertical Datum of 1988. Boring locations were professionally survey
4. Potential sources of contamination are based on the recognized environmental conditions identified in the Phase I Environmental Assessment Report.
5. Individual metals analysis includes arsenic (As), cobalt (Co), iron (Fe), manganese (Mn), or nickel (Ni).
6. Polycyclic aromatic hydrocarbons (PAH) analysis by EPA Method 8270E.
7. Total Petroleum Hydrocarbons (TPH) Gasoline Range Organics (GRO) and Diesel Range Organics (DRO) by EPA Method 8015D

Table 2: Direct Contact MSCs Compared to Soil Analytical Results

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Direct Contact Residential	Direct Contact Non-Residential Surface Soil	Direct Contact Non-Residential Subsurface Soil	FROG-SS-201(1.0-2.0)	FROG-SS-201 (4.5-5.0)	FROG-SS-201 (9.5-10.)	FROG-SS-201 (14.5-15.0)	FROG-SS-202 (1.0-2.0)	FROG-SS-202 (5.0-5.5)	FROG-SS-202 (7.5-8.0)	FROG-SS-202 (9.0-9.5)	FROG-SS-203 (1.5-2.0)	FROG-SS-204 (1.0-2.0)	FROG-SS-204 (3.5-4.0)	FROG-SS-205 (1.0-2.0)	FROG-SS-DUP-202	FROG-SS-205 (3.5-4.0)	FROG-SS-206 (0.5-2.0)	FROG-SS-206 (4.5-5.0)	FROG-SS-206 (9.5-10.0)	FROG-SS-206 (10.5-11.0)	FROG-SS-207 (0.5-2.0)	FROG-SS-207 (4.5-5.0)
Metals																								
arsenic	7440-38-2	12	61	190,000	3.63J	**8.76**	**7.57**	**9.84**	**9.38**	**18.8**	**16.8**	**18.2**	**4.46**	**9.43**	**10.9**	**5.38**	**4.55**	**11.2**	**13.3**	**7.76**	**10.1**	**20.0**	**38.9**	**14.8**
cobalt	7440-48-4	66	960	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
iron	7439-89-6	150,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**50,300**	**41,300**	**43,400**	**37,200**	**31,200**	**31,900**	**40,900**	**84,100**	**70,200**
manganese	7439-96-5	31,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**13,600**	**11,200**	**2,250**	**925**	**189**	**1,680**	**536**	**51,600**	**615**
nickel	7440-02-0	4,400	64,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Polycyclic Aromoatic Hydrocarbons																								
naphthalene	91-20-3	13	66	77	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-methylnapthalene	91-57-6	57	240	270	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-chloronaphthalene	91-58-7	18,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
acenaphthylene	208-96-8	13,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
acenaphthene	83-32-9	13,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
fluorene	86-73-7	8,800	130,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
phenanthrene	85-01-8	66,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
anthracene	120-12-7	66,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
fluoranthene	206-44-0	8,800	130,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pyrene	129-00-0	6,600	96,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(a)anthracene	56-55-3	6.1	130	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chrysene	218-01-9	35	760	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(b)fluoranthene	205-99-2	3.5	76	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(k)fluoranthene	207-08-9	3.5	76	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(a)pyrene	50-32-8	4.2	91	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
indeno (1,2,3-cd) pyrene	193-39-5	3.5	76	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
dibenzo(a,h)anthracene	53-70-3	1	22	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(g,h,i)perylene	191-24-2	13,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons																								
Gasoline Range Organics	-	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diesel Range Organics	-	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 2: Direct Contact MSCs Compared to Soil Analytical Results

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Direct Contact Residential	Direct Contact Non-Residential Surface Soil	Direct Contact Non-Residential Subsurface Soil	FROG-SS-207 (5.5-6.0)	FROG-SS-207 (6.5-7.0)	FROG-SS-208 (0.0-2.0)	FROG-SS-208 (4.5-5.0)	FROG-SS-208 (9.5-10.0)	FROG-SS-208 (12.0-12.5)	FROG-SS-209 (0.0-2.0)	FROG-SS -209 (4.5-5.0)	FROG-SS-209 (9.5-10.0)	FROG-SS-209 (14.5-15.0)	FROG-SS-210 (0.0-2.0)	FROG-SS-210 (4.5-5.0)	FROG-SS-210 (9.5-10.0)	FROG-SS-210 (14.5-15.0)	FROG-SS-211 (0.0-2.0)	FROG-SS-211 (4.5-5.0)	FROG-SS-211 (7.5-8.0)	FROG-SS-211 (10.0-10.5)	FROG-SS-212 (0.0-2.0)	FROG-SS-212 (4.5-5.0)
Metals																								
arsenic	7440-38-2	12	61	190,000	**29.6**	**55.5**	**37.4**	**8.37**	**9.68**	**19.0**	**2.55**	**6.96**	**9.79**	**4.62**	**5.54**	**5.94**	**15.4**	**23.0**	**16.5**	**6.78**	**6.93**	**9.49**	**15.6**	**6.78**
cobalt	7440-48-4	66	960	190,000	NA	NA	NA	NA	NA	NA	**5.70**	**4.80**	**9.53**	**17.4**	**6.68**	**7.93**	**17.8**	**12.7**	**63.4**	**9.88**	**8.36**	**5.94**	**57.2**	**75.1**
iron	7439-89-6	150,000	190,000	190,000	**103,000**	**54,600**	**144,000**	**37,800**	**42,600**	**44,900**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
manganese	7439-96-5	31,000	190,000	190,000	**904**	**814**	**6,500**	**216**	**1,660**	**891**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
nickel	7440-02-0	4,400	64,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Polycyclic Aromoatic Hydrocarbons																								
naphthalene	91-20-3	13	66	77	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-methylnapthalene	91-57-6	57	240	270	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-chloronaphthalene	91-58-7	18,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
acenaphthylene	208-96-8	13,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
acenaphthene	83-32-9	13,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
fluorene	86-73-7	8,800	130,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
phenanthrene	85-01-8	66,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
anthracene	120-12-7	66,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
fluoranthene	206-44-0	8,800	130,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pyrene	129-00-0	6,600	96,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(a)anthracene	56-55-3	6.1	130	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chrysene	218-01-9	35	760	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(b)fluoranthene	205-99-2	3.5	76	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(k)fluoranthene	207-08-9	3.5	76	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(a)pyrene	50-32-8	4.2	91	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
indeno (1,2,3-cd) pyrene	193-39-5	3.5	76	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
dibenzo(a,h)anthracene	53-70-3	1	22	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(g,h,i)perylene	191-24-2	13,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons																								
Gasoline Range Organics	-	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diesel Range Organics	-	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 2: Direct Contact MSCs Compared to Soil Analytical Results

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Direct Contact Residential	Direct Contact Non-Residential Surface Soil	Direct Contact Non-Residential Subsurface Soil	FROG-SS-212 (5.0-7.0)	FROG-SS-212 (9.5-10.0)	FROG-SS-212 (13.5-14.0)	FROG-SS-213 (0.0-2.0)	FROG-SS-213 (4.5-5.0)	FROG-SS-213 (9.5-10.0)	FROG-SS-213 (14.5-15.0)	FROG-SS-214 (0.0-2.0)	FROG-SS-214 (4.0-4.5)	FROG-SS-214 (5.0-5.5)	FROG-SS-214 (9.0-9.5)	FROG-SS-215 (0.0-2.0)	FROG-SS-215 (4.5-5.0)	FROG-SS-DUP-201	FROG-SS-215 (9.5-10.0)	FROG-SS-215 (14.5-15.0)	FROG-SS-216 (0.0-2.0)	FROG-SS-216 (4.5-5.0)	FROG-SS-216 (6.0-7.0)	FROG-SS-216 (7.5-8.0)
Metals																								
arsenic	7440-38-2	12	61	190,000	NA	**6.18**	**7.30**	**2.79**	**4.37**	**4.58**	**5.27**	**3.78**	**9.55**	**4.04**	**11.3**	**3.10**	**4.17**	**3.88**	**1.55**	**6.23**	**5.08**	**1.74**	**9.05**	**2.86**
cobalt	7440-48-4	66	960	190,000	NA	**39.6**	**13.1**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
iron	7439-89-6	150,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
manganese	7439-96-5	31,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
nickel	7440-02-0	4,400	64,000	190,000	NA	NA	NA	**56.9**	**10.9**	**17.8**	**18.5**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Polycyclic Aromoatic Hydrocarbons																								
naphthalene	91-20-3	13	66	77	**13**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-methylnapthalene	91-57-6	57	240	270	**69**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-chloronaphthalene	91-58-7	18,000	190,000	190,000	<2.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
acenaphthylene	208-96-8	13,000	190,000	190,000	<2.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
acenaphthene	83-32-9	13,000	190,000	190,000	**4.7**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
fluorene	86-73-7	8,800	130,000	190,000	**6.7**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
phenanthrene	85-01-8	66,000	190,000	190,000	**10**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
anthracene	120-12-7	66,000	190,000	190,000	1.5J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
fluoranthene	206-44-0	8,800	130,000	190,000	0.56J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pyrene	129-00-0	6,600	96,000	190,000	0.58J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(a)anthracene	56-55-3	6.1	130	190,000	<1.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chrysene	218-01-9	35	760	190,000	<1.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(b)fluoranthene	205-99-2	3.5	76	190,000	<1.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(k)fluoranthene	207-08-9	3.5	76	190,000	<1.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(a)pyrene	50-32-8	4.2	91	190,000	<2.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
indeno (1,2,3-cd) pyrene	193-39-5	3.5	76	190,000	<2.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
dibenzo(a,h)anthracene	53-70-3	1	22	190,000	*<0.30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(g,h,i)perylene	191-24-2	13,000	190,000	190,000	<2.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons																								
Gasoline Range Organics	-	-	-	-	**200**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diesel Range Organics	-	-	-	-	**7,800**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 2: Direct Contact MSCs Compared to Soil Analytical Results

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Direct Contact Residential	Direct Contact Non-Residential Surface Soil	Direct Contact Non-Residential Subsurface Soil	FROG-SS-217 (0.0-2.0)	FROG-SS-217 (4.0-5.0)	FROG-SS-217 (9.0-10.0)	FROG-SS-217 (11.0-12.0)	FROG-SS-218 (0.0-2.0)	FROG-SS-218 (4.0-5.0)	FROG-SS-218 (9.0-10.0)	FROG-SS-218 (11.0-12.0)	FROG-SS-219 (0.0-2.0)	FROG-SS-DUP-204	FROG-SS-219 (4.0-5.0)	FROG-SS-219 (5.5-6.5)	FROG-SS-220 (0.0-2.0)	FROG-SS-220 (4.0-5.0)	FROG-SS-DUP-203	FROG-SS-220 (5.5-6.0)	FROG-SS-221 (0.0-2.0)	FROG-SS-221 (4.0-5.0)	FROG-SS-221 (9.0-10.0)	FROG-SS-221 (14.0-15.0)
Metals																								
arsenic	7440-38-2	12	61	190,000	**9.05**	**19.5**	**10.5**	**17.6**	**9.45**	**11.9**	**17.0**	**11.8**	**9.76**	**6.84**	**7.25**	**17.2**	**8.94**	**5.76**	4.21J	**11.4**	**6.93**	**25.3**	**4.33**	**4.42**
cobalt	7440-48-4	66	960	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
iron	7439-89-6	150,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
manganese	7439-96-5	31,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
nickel	7440-02-0	4,400	64,000	190,000	**165**	**97.9**	**18.6**	**40.3**	NA	NA	NA	NA	NA	NA	NA	NA	**493**	**599**	**531**	**18.7**	NA	NA	NA	NA
Polycyclic Aromoatic Hydrocarbons																								
naphthalene	91-20-3	13	66	77	**0.10**	**0.049**	<0.041	<0.043	0.11J	0.030J	<0.041	<0.040	<0.18	**0.12**	**0.054**	<0.042	**0.049**	**0.040**	**0.037**	0.028J	**0.093**	**0.064**	<0.040	<0.039
2-methylnapthalene	91-57-6	57	240	270	0.19J	0.038J	<0.25	<0.26	<1.0	0.034J	<0.24	<0.24	<1.0	0.096J	0.068J	<0.25	0.059J	0.052J	0.045J	<0.23	0.11J	0.054J	<0.24	<0.24
2-chloronaphthalene	91-58-7	18,000	190,000	190,000	<0.18	<0.20	<0.20	<0.21	<0.88	<0.19	<0.20	<0.20	<0.88	<0.19	<0.19	<0.21	<0.18	<0.18	<0.18	<0.19	<0.17	<0.18	<0.20	<0.20
acenaphthylene	208-96-8	13,000	190,000	190,000	<0.14	0.13J	<0.16	<0.17	<0.70	<0.15	<0.16	<0.16	<0.70	0.089J	0.045J	<0.17	0.034J	<0.14	<0.15	0.031J	0.11J	0.034J	<0.16	<0.16
acenaphthene	83-32-9	13,000	190,000	190,000	0.019J	0.046J	<0.16	<0.17	<0.70	<0.15	<0.16	<0.16	<0.70	<0.15	<0.15	<0.17	<0.14	<0.14	<0.15	<0.16	0.065J	0.071J	<0.16	<0.16
fluorene	86-73-7	8,800	130,000	190,000	0.020J	0.082J	<0.20	<0.21	<0.88	<0.19	<0.20	<0.20	<0.88	0.018J	<0.19	<0.21	0.019J	<0.18	<0.18	<0.19	0.072J	0.070J	<0.20	<0.20
phenanthrene	85-01-8	66,000	190,000	190,000	**0.24**	**1.2**	<0.12	<0.13	0.13J	0.053J	<0.12	<0.12	0.11J	**0.34**	**0.16**	<0.13	**0.21**	0.074J	0.067J	**0.12**	**0.88**	**0.74**	<0.12	<0.12
anthracene	120-12-7	66,000	190,000	190,000	<0.11	**0.26**	<0.12	<0.13	<0.52	<0.11	<0.12	<0.12	<0.53	0.082J	0.039J	<0.13	0.060J	<0.11	<0.11	<0.12	**0.22**	**0.22**	<0.12	<0.12
fluoranthene	206-44-0	8,800	130,000	190,000	0.23	1.0	<0.12	<0.13	0.17J	0.055J	<0.12	<0.12	0.23J	0.63	0.29	<0.13	0.40	0.072J	0.083J	**0.21**	**1.4**	**1.1**	<0.12	<0.12
pyrene	129-00-0	6,600	96,000	190,000	0.20	1.0	<0.12	<0.13	0.18J	0.054J	<0.12	<0.12	0.20J	0.59	0.28	<0.13	0.33	0.058J	0.074J	**0.25**	**1.2**	**0.92**	<0.12	<0.12
benzo(a)anthracene	56-55-3	6.1	130	190,000	**0.13**	**0.62**	<0.12	<0.13	0.12J	0.049J	<0.12	<0.12	0.16J	**0.47**	**0.19**	<0.13	**0.23**	0.036J	0.0436J	0.14	0.83	0.55	<0.12	<0.12
chrysene	218-01-9	35	760	190,000	**0.14**	**0.67**	<0.12	<0.13	0.13J	0.066J	<0.12	<0.12	0.21J	**0.63**	**0.23**	<0.13	**0.22**	0.040J	0.047J	0.17	0.75	0.51	<0.12	<0.12
benzo(b)fluoranthene	205-99-2	3.5	76	190,000	**0.16**	**0.48**	<0.12	<0.13	0.18J	0.083J	<0.12	<0.12	0.33J	**1.0**	**0.28**	<0.13	**0.29**	0.050J	0.057J	**0.17**	**1.0**	**0.61**	<0.12	<0.12
benzo(k)fluoranthene	207-08-9	3.5	76	190,000	0.061J	**0.15**	<0.12	<0.13	<0.52	<0.11	<0.12	<0.12	<0.53	**0.26**	0.10J	<0.13	0.084J	<0.11	<0.11	0.044J	**0.27**	**0.21**	<0.12	<0.12
benzo(a)pyrene	50-32-8	4.2	91	190,000	0.12J	**0.39**	<0.16	<0.17	<0.70	0.050J	<0.16	<0.16	<0.70	**0.44**	**0.20**	<0.17	**0.21**	<0.14	<0.15	0.14J	0.70	0.48	<0.16	<0.16
indeno (1,2,3-cd) pyrene	193-39-5	3.5	76	190,000	0.084J	**0.19**	<0.16	<0.17	<0.70	0.040J	<0.16	<0.16	0.13J	**0.43**	0.13J	<0.17	**0.14**	<0.14	0.028J	0.083J	**0.43**	**0.28**	<0.16	<0.16
dibenzo(a,h)anthracene	53-70-3	1	22	190,000	0.022J	0.058J	<0.12	<0.13	<0.52	<0.11	<0.12	<0.12	<0.53	**0.15**	0.036J	<0.13	0.038J	<0.11	<0.11	0.023J	**0.13**	0.072J	<0.12	<0.12
benzo(g,h,i)perylene	191-24-2	13,000	190,000	190,000	0.091J	**0.20**	<0.16	<0.17	0.11J	0.048J	<0.16	<0.16	0.16J	**0.60**	**0.15**	<0.17	**0.14**	0.024J	<0.029J	0.089J	**0.41**	**0.27**	<0.16	<0.16
Total Petroleum Hydrocarbons																								
Gasoline Range Organics	-	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diesel Range Organics	-	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 2: Direct Contact MSCs Compared to Soil Analytical Results

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Direct Contact Residential	Direct Contact Non-Residential Surface Soil	Direct Contact Non-Residential Subsurface Soil	FROG-SS-222 (0.0-2.0)	FROG-SS-222 (4.0-4.5)	FROG-SS-222 (9.0-10.0)	FROG-SS-222 (10.5-11.5)	FROG-SS-223 (0.0-2.0)	FROG-SS-223 (4.0-5.0)	FROG-SS-223 (9.0-10.0)	FROG-SS-223 (10.5-11.5)	FROG-SS-224 (0.0-2.0)	FROG-SS-224 (4.5-5.0)	FROG-SS-224 (9.5-10.0)	FROG-SS-224 (14.5-15.0)	FROG-SS-225 (0.0-2.0)	FROG-SS-225 (4.5-5.0)	FROG-SS-225 (9.5-10.0)	FROG-SS-225 (14.5-15.0)	FROG-SS-301 (0.0-2.0)	FROG-SS-301 (9.0-9.5)	FROG-SS-302 (0.0-2.0)	FROG-SS-DUP-301
Metals																								
arsenic	7440-38-2	12	61	190,000	**10.5**	**9.80**	**7.18**	**13.7**	**4.59**	**5.93**	**11.0**	**9.17**	**7.70**	**10.1**	**7.28**	**9.78**	**5.10**	**3.89**	**2.26**	**3.13**	**7.56**	**12.4**	**8.07**	**5.83**
cobalt	7440-48-4	66	960	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
iron	7439-89-6	150,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
manganese	7439-96-5	31,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
nickel	7440-02-0	4,400	64,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Polycyclic Aromoatic Hydrocarbons																								
naphthalene	91-20-3	13	66	77	**0.20**	**0.67**	<0.040	<0.043	**0.070**	**0.042**	<0.041	<0.041	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-methylnapthalene	91-57-6	57	240	270	**0.30**	**0.38**	<0.24	<0.26	0.15J	0.048J	<0.24	<0.25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-chloronaphthalene	91-58-7	18,000	190,000	190,000	<0.18	<0.18	<0.20	<0.22	<0.17	<0.18	<0.20	<0.21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
acenaphthylene	208-96-8	13,000	190,000	190,000	0.045J	0.047J	<0.16	<0.17	<0.13	<0.14	<0.16	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
acenaphthene	83-32-9	13,000	190,000	190,000	0.10J	**2.2**	<0.16	<0.17	0.056J	<0.14	<0.16	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
fluorene	86-73-7	8,800	130,000	190,000	0.11J	**1.1**	<0.20	<0.22	0.044J	<0.18	<0.20	<0.21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
phenanthrene	85-01-8	66,000	190,000	190,000	**0.79**	**11**	<0.12	0.037J	**0.13**	**0.12**	<0.12	<0.12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
anthracene	120-12-7	66,000	190,000	190,000	**0.15**	**2.1**	<0.12	<0.13	<0.10	<0.10	<0.12	<0.12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
fluoranthene	206-44-0	8,800	130,000	190,000	**0.82**	**12**	<0.12	0.027J	0.080J	**0.13**	<0.12	<0.12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pyrene	129-00-0	6,600	96,000	190,000	**0.63**	**7.0**	<0.12	0.024J	**0.11**	**0.13**	<0.12	<0.12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(a)anthracene	56-55-3	6.1	130	190,000	0.43	5.4	<0.12	<0.13	0.062J	0.14	<0.12	<0.12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chrysene	218-01-9	35	760	190,000	0.43	5.0	<0.12	<0.13	0.11	0.18	<0.12	<0.12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(b)fluoranthene	205-99-2	3.5	76	190,000	**0.46**	**6.4**	<0.12	<0.13	0.074J	**0.33**	<0.12	<0.12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(k)fluoranthene	207-08-9	3.5	76	190,000	**0.12**	**1.8**	<0.12	<0.13	<0.10	0.083J	<0.12	<0.12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(a)pyrene	50-32-8	4.2	91	190,000	0.31	**4.8**	<0.16	<0.17	0.041J	0.26	<0.16	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
indeno (1,2,3-cd) pyrene	193-39-5	3.5	76	190,000	**0.20**	**3.0**	<0.16	<0.17	0.044J	**0.25**	<0.16	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
dibenzo(a,h)anthracene	53-70-3	1	22	190,000	**0.054**	**0.62**	<0.12	<0.13	<0.10	0.052J	<0.12	<0.12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(g,h,i)perylene	191-24-2	13,000	190,000	190,000	**0.20**	**2.9**	<0.16	<0.17	0.064J	**0.30**	<0.16	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons																								
Gasoline Range Organics	-	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diesel Range Organics	-	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 2: Direct Contact MSCs Compared to Soil Analytical Results

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Direct Contact Residential	Direct Contact Non-Residential Surface Soil	Direct Contact Non-Residential Subsurface Soil	FROG-SS-302 (6.5-7.0)	FROG-SS-303 (0.0-2.0)	FROG-SS-303 (4.5-5.0)	FROG-SS-304 (0.0-2.0)	FROG-SS-304 (14.5-15.0)	FROG-SS-305 (0.0-2.0)	FROG-SS-305 (7.0-7.5)	FROG-SS-306 (0.0-2.0)	FROG-SS-306 (3.0-3.5)	FROG-SS-307 (0.0-2.0)	FROG-SS-307 (8.0-8.5)	FROG-SS-308 (0.0-2.0)	FROG-SS-308 (6.5-7.0)	FROG-SS-309 (0.0-2.0)	FROG-SS-309 (4.0-4.5)	FROG-SS-310 (0.0-2.0)	FROG-SS-310 (4.5-5.0)
Metals																					
arsenic	7440-38-2	12	61	190,000	**8.81**	**9.63**	**11.9**	**9.72**	**24.3**	**9.07**	**10.7**	**9.72**	**8.81**	**10.1**	**13.1**	**8.97**	**10.9**	**9.57**	**5.78**	**5.36**	**4.76**
cobalt	7440-48-4	66	960	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
iron	7439-89-6	150,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
manganese	7439-96-5	31,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
nickel	7440-02-0	4,400	64,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Polycyclic Aromoatic Hydrocarbons																					
naphthalene	91-20-3	13	66	77	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-methylnapthalene	91-57-6	57	240	270	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-chloronaphthalene	91-58-7	18,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
acenaphthylene	208-96-8	13,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
acenaphthene	83-32-9	13,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
fluorene	86-73-7	8,800	130,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
phenanthrene	85-01-8	66,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
anthracene	120-12-7	66,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
fluoranthene	206-44-0	8,800	130,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pyrene	129-00-0	6,600	96,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(a)anthracene	56-55-3	6.1	130	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chrysene	218-01-9	35	760	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(b)fluoranthene	205-99-2	3.5	76	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(k)fluoranthene	207-08-9	3.5	76	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(a)pyrene	50-32-8	4.2	91	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
indeno (1,2,3-cd) pyrene	193-39-5	3.5	76	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
dibenzo(a,h)anthracene	53-70-3	1	22	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(g,h,i)perylene	191-24-2	13,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons																					
Gasoline Range Organics	-	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diesel Range Organics	-	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Grey results are not detected above the laboratory reporting limit

Bold results are detected above laboratory reporting limit

Yellow Highlighted results exceed the PADEP direct contact numeric values for residential soil

Orange Highlighted results exceed the PADEP direct contact numeric values for non-residential soil

Gray Highligted results have a method detection limit that exceeds at least one MSC

J: Estimated value. The target analyte concentration is below the laboratory reporting limit, but above the method detection limit

B: The analyte was detected above the reporting limit in the associated method blank.

NA: Not Analyzed

Values following < are the laboratory reporting limit

Values following *< are the method detection limit and shown where the laboratory reporting limit exceeds an MSC

All values are expressed in milligrams per kilogram (mg/kg) = 1 part per million (ppm)

Sample results are compared to PADEP MSCs for several scenarios that are provided in 25 Pa. Code Chapter 250, Administration of the Land Recycling Program.

Table 3: Used Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-201(1.0-2.0)	FROG-SS-201 (4.5-5.0)	FROG-SS-201 (9.5-10.)	FROG-SS-201 (14.5-15.0)	FROG-SS-202 (1.0-2.0)	FROG-SS-202 (5.0-5.5)	FROG-SS-202 (7.5-8.0)	FROG-SS-202 (9.0-9.5)	FROG-SS-203 (1.5-2.0)	FROG-SS-204 (1.0-2.0)	FROG-SS-204 (3.5-4.0)	FROG-SS-205 (1.0-2.0)	FROG-SS-DUP-202	FROG-SS-205 (3.5-4.0)	FROG-SS-206 (0.5-2.0)	FROG-SS-206 (4.5-5.0)	FROG-SS-206 (9.5-10.0)	FROG-SS-206 (10.5-11.0)	FROG-SS-207 (0.5-2.0)	FROG-SS-207 (4.5-5.0)	FROG-SS-207 (5.5-6.0)	FROG-SS-207 (6.5-7.0)
Metals																									
arsenic	7440-38-2	29	29	3.63J	**8.76**	**7.57**	**9.84**	**9.38**	**18.8**	**16.8**	**18.2**	**4.46**	**9.43**	**10.9**	**5.38**	**4.55**	**11.2**	**13.3**	**7.76**	**10.1**	**20.0**	**38.9**	**14.8**	**29.6**	**55.5**
cobalt	7440-48-4	45	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
iron	7439-89-6	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**50,300**	**41,300**	**43,400**	**37,200**	**31,200**	**31,900**	**40,900**	**84,100**	**70,200**	**103,000**	**54,600**
manganese	7439-96-5	2,000	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**13,600**	**11,200**	**2,250**	**925**	**189**	**1,680**	**536**	**51,600**	**615**	**904**	**814**
nickel	7440-02-0	650	650	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds																									
naphthalene	91-20-3	25	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-methylnapthalene	91-57-6	25	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-chloronaphthalene	91-58-7	6,000	17,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
acenaphthylene	208-96-8	2,400	6,600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
acenaphthene	83-32-9	2,600	4,700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
fluorene	86-73-7	2,800	3,800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
phenanthrene	85-01-8	10,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
anthracene	120-12-7	350	350	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
fluoranthene	206-44-0	3,200	3,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pyrene	129-00-0	2,200	2,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(a)anthracene	56-55-3	26	340	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chrysene	218-01-9	220	230	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(b)fluoranthene	205-99-2	25	170	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(k)fluoranthene	207-08-9	200	610	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(a)pyrene	50-32-8	46	46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
indeno (1,2,3-cd) pyrene	193-39-5	1,400	18,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
dibenzo(a,h)anthracene	53-70-3	23	270	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(g,h,i)perylene	191-24-2	180	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons																									
Gasoline Range Organics	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diesel Range Organics	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 3: Used Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-208 (0.0-2.0)	FROG-SS-208 (4.5-5.0)	FROG-SS-208 (9.5-10.0)	FROG-SS-208 (12.0-12.5)	FROG-SS-209 (0.0-2.0)	FROG-SS-209 (4.5-5.0)	FROG-SS-209 (9.5-10.0)	FROG-SS-209 (14.5-15.0)	FROG-SS-210 (0.0-2.0)	FROG-SS-210 (4.5-5.0)	FROG-SS-210 (9.5-10.0)	FROG-SS-210 (14.5-15.0)	FROG-SS-211 (0.0-2.0)	FROG-SS-211 (4.5-5.0)	FROG-SS-211 (7.5-8.0)	FROG-SS-211 (10.0-10.5)	FROG-SS-212 (0.0-2.0)	FROG-SS-212 (4.5-5.0)	FROG-SS-212 (5.0-7.0)	FROG-SS-212 (9.5-10.0)	FROG-SS-212 (13.5-14.0)	FROG-SS-213 (0.0-2.0)
Metals																									
arsenic	7440-38-2	29	29	**37.4**	**8.37**	**9.68**	**19**	**2.55**	**6.96**	**9.79**	**4.62**	**5.54**	**5.94**	**15.4**	**23**	**16.5**	**6.78**	**6.93**	**9.49**	**15.6**	**6.78**	NA	**6.18**	**7.30**	**2.79**
cobalt	7440-48-4	45	130	NA	NA	NA	NA	**5.70**	**4.80**	**9.53**	**17.4**	**6.68**	**7.93**	**17.8**	**12.7**	**63.4**	**9.88**	**8.36**	**5.94**	**57.2**	**75.1**	NA	**39.6**	**13.1**	NA
iron	7439-89-6	-	-	**144,000**	**37,800**	**42,600**	**44,900**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
manganese	7439-96-5	2,000	2,000	**6,500**	**216**	**1,660**	**891**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
nickel	7440-02-0	650	650	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**56.9**
Semivolatile Organic Compounds																									
naphthalene	91-20-3	25	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**13**	NA	NA	NA
2-methylnapthalene	91-57-6	25	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**69**	NA	NA	NA
2-chloronaphthalene	91-58-7	6,000	17,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2.6	NA	NA	NA
acenaphthylene	208-96-8	2,400	6,600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2.1	NA	NA	NA
acenaphthene	83-32-9	2,600	4,700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**4.7**	NA	NA	NA
fluorene	86-73-7	2,800	3,800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**6.7**	NA	NA	NA
phenanthrene	85-01-8	10,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**10**	NA	NA	NA
anthracene	120-12-7	350	350	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.5J	NA	NA	NA
fluoranthene	206-44-0	3,200	3,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.56J	NA	NA	NA
pyrene	129-00-0	2,200	2,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.58J	NA	NA	NA
benzo(a)anthracene	56-55-3	26	340	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.6	NA	NA	NA
chrysene	218-01-9	220	230	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.6	NA	NA	NA
benzo(b)fluoranthene	205-99-2	25	170	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.6	NA	NA	NA
benzo(k)fluoranthene	207-08-9	200	610	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.6	NA	NA	NA
benzo(a)pyrene	50-32-8	46	46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2.1	NA	NA	NA
indeno (1,2,3-cd) pyrene	193-39-5	1,400	18,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2.1	NA	NA	NA
dibenzo(a,h)anthracene	53-70-3	23	270	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	*<0.30	NA	NA	NA
benzo(g,h,i)perylene	191-24-2	180	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2.1	NA	NA	NA
Total Petroleum Hydrocarbons																									
Gasoline Range Organics	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**200**	NA	NA	NA
Diesel Range Organics	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**7,800**	NA	NA	NA

Table 3: Used Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-213 (4.5-5.0)	FROG-SS-213 (9.5-10.0)	FROG-SS-213 (14.5-15.0)	FROG-SS-214 (0.0-2.0)	FROG-SS-214 (4.0-4.5)	FROG-SS-214 (5.0-5.5)	FROG-SS-214 (9.0-9.5)	FROG-SS-215 (0.0-2.0)	FROG-SS-215 (4.5-5.0)	FROG-SS-DUP-201	FROG-SS-215 (9.5-10.0)	FROG-SS-215 (14.5-15.0)	FROG-SS-216 (0.0-2.0)	FROG-SS-216 (4.5-5.0)	FROG-SS-216 (6.0-7.0)	FROG-SS-216 (7.5-8.0)	FROG-SS-217 (0.0-2.0)	FROG-SS-217 (4.0-5.0)	FROG-SS-217 (9.0-10.0)	FROG-SS-217 (11.0-12.0)	FROG-SS-218 (0.0-2.0)	FROG-SS-218 (4.0-5.0)
Metals																									
arsenic	7440-38-2	29	29	**4.37**	**4.58**	**5.27**	**3.78**	**9.55**	**4.04**	**11.3**	**3.10**	**4.17**	**3.88**	**1.55**	**6.23**	**5.08**	**1.74**	**9.05**	**2.86**	**9.05**	**19.5**	**10.5**	**17.6**	**9.45**	**11.9**
cobalt	7440-48-4	45	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
iron	7439-89-6	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
manganese	7439-96-5	2,000	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
nickel	7440-02-0	650	650	**10.9**	**17.8**	**18.5**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**165**	**97.9**	**18.6**	**40.3**	NA	NA
Semivolatile Organic Compounds																									
naphthalene	91-20-3	25	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.10**	**0.049**	<0.041	<0.043	0.11J	0.030J
2-methylnapthalene	91-57-6	25	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.19J	0.038J	<0.25	<0.26	<1.0	0.034J
2-chloronaphthalene	91-58-7	6,000	17,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.18	<0.20	<0.20	<0.21	<0.88	<0.19
acenaphthylene	208-96-8	2,400	6,600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.14	0.13J	<0.16	<0.17	<0.70	<0.15
acenaphthene	83-32-9	2,600	4,700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.019J	0.046J	<0.16	<0.17	<0.70	<0.15
fluorene	86-73-7	2,800	3,800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.020J	0.082J	<0.20	<0.21	<0.88	<0.19
phenanthrene	85-01-8	10,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.24**	**1.2**	<0.12	<0.13	0.13J	0.053J
anthracene	120-12-7	350	350	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.11	**0.26**	<0.12	<0.13	<0.52	<0.11
fluoranthene	206-44-0	3,200	3,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.23	1.0	<0.12	<0.13	0.17J	0.055J
pyrene	129-00-0	2,200	2,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.20	1.0	<0.12	<0.13	0.18J	0.054J
benzo(a)anthracene	56-55-3	26	340	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.13**	**0.62**	<0.12	<0.13	0.12J	0.049J
chrysene	218-01-9	220	230	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.14**	**0.67**	<0.12	<0.13	0.13J	0.066J
benzo(b)fluoranthene	205-99-2	25	170	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.16**	**0.48**	<0.12	<0.13	0.18J	0.083J
benzo(k)fluoranthene	207-08-9	200	610	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.061J	**0.15**	<0.12	<0.13	<0.52	<0.11
benzo(a)pyrene	50-32-8	46	46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.12J	**0.39**	<0.16	<0.17	<0.70	0.050J
indeno (1,2,3-cd) pyrene	193-39-5	1,400	18,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.084J	**0.19**	<0.16	<0.17	<0.70	0.040J
dibenzo(a,h)anthracene	53-70-3	23	270	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.022J	0.058J	<0.12	<0.13	<0.52	<0.11
benzo(g,h,i)perylene	191-24-2	180	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.091J	**0.20**	<0.16	<0.17	0.11J	0.048J
Total Petroleum Hydrocarbons																									
Gasoline Range Organics	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diesel Range Organics	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 3: Used Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-218 (9.0-10.0)	FROG-SS-218 (11.0-12.0)	FROG-SS-219 (0.0-2.0)	FROG-SS-DUP-204	FROG-SS-219 (4.0-5.0)	FROG-SS-219 (5.5-6.5)	FROG-SS-220 (0.0-2.0)	FROG-SS-220 (4.0-5.0)	FROG-SS-DUP-203	FROG-SS-220 (5.5-6.0)	FROG-SS-221 (0.0-2.0)	FROG-SS-221 (4.0-5.0)	FROG-SS-221 (9.0-10.0)	FROG-SS-221 (14.0-15.0)	FROG-SS-222 (0.0-2.0)	FROG-SS-222 (4.0-4.5)	FROG-SS-222 (9.0-10.0)	FROG-SS-222 (10.5-11.5)	FROG-SS-223 (0.0-2.0)	FROG-SS-223 (4.0-5.0)	FROG-SS-223 (9.0-10.0)	FROG-SS-223 (10.5-11.5)
Metals																									
arsenic	7440-38-2	29	29	**17**	**11.8**	**9.76**	**6.84**	**7.25**	**17.2**	**8.94**	**5.76**	4.21J	**11.4**	**6.93**	**25.3**	**4.33**	**4.42**	**10.5**	**9.80**	**7.18**	**13.7**	**4.59**	**5.93**	**11.0**	**9.17**
cobalt	7440-48-4	45	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
iron	7439-89-6	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
manganese	7439-96-5	2,000	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
nickel	7440-02-0	650	650	NA	NA	NA	NA	NA	NA	**493**	**599**	**531**	**18.7**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds																									
naphthalene	91-20-3	25	25	<0.041	<0.040	<0.18	**0.12**	**0.054**	<0.042	**0.049**	**0.040**	**0.037**	0.028J	**0.093**	**0.064**	<0.040	<0.039	**0.20**	**0.67**	<0.040	<0.043	**0.070**	**0.042**	<0.041	<0.041
2-methylnapthalene	91-57-6	25	100	<0.24	<0.24	<1.0	0.096J	0.068J	<0.25	0.059J	0.052J	0.045J	<0.23	0.11J	0.054J	<0.24	<0.24	**0.30**	**0.38**	<0.24	<0.26	0.15J	0.048J	<0.24	<0.25
2-chloronaphthalene	91-58-7	6,000	17,000	<0.20	<0.20	<0.88	<0.19	<0.19	<0.21	<0.18	<0.18	<0.18	<0.19	<0.17	<0.18	<0.20	<0.20	<0.18	<0.18	<0.20	<0.22	<0.17	<0.18	<0.20	<0.21
acenaphthylene	208-96-8	2,400	6,600	<0.16	<0.16	<0.70	0.089J	0.045J	<0.17	0.034J	<0.14	<0.15	0.031J	0.11J	0.034J	<0.16	<0.16	0.045J	0.047J	<0.16	<0.17	<0.13	<0.14	<0.16	<0.16
acenaphthene	83-32-9	2,600	4,700	<0.16	<0.16	<0.70	<0.15	<0.15	<0.17	<0.14	<0.14	<0.15	<0.16	0.065J	0.071J	<0.16	<0.16	0.10J	**2.2**	<0.16	<0.17	0.056J	<0.14	<0.16	<0.16
fluorene	86-73-7	2,800	3,800	<0.20	<0.20	<0.88	0.018J	<0.19	<0.21	0.019J	<0.18	<0.18	<0.19	0.072J	0.070J	<0.20	<0.20	0.11J	**1.1**	<0.20	<0.22	0.044J	<0.18	<0.20	<0.21
phenanthrene	85-01-8	10,000	10,000	<0.12	<0.12	0.11J	**0.34**	**0.16**	<0.13	**0.21**	0.074J	0.067J	**0.12**	**0.88**	**0.74**	<0.12	<0.12	**0.79**	**11**	<0.12	0.037J	**0.13**	**0.12**	<0.12	<0.12
anthracene	120-12-7	350	350	<0.12	<0.12	<0.53	0.082J	0.039J	<0.13	0.060J	<0.11	<0.11	<0.12	**0.22**	**0.22**	<0.12	<0.12	**0.15**	**2.1**	<0.12	<0.13	<0.10	<0.10	<0.12	<0.12
fluoranthene	206-44-0	3,200	3,200	<0.12	<0.12	0.23J	0.63	0.29	<0.13	0.40	0.072J	0.083J	**0.21**	**1.4**	**1.1**	<0.12	<0.12	**0.82**	**12**	<0.12	0.027J	0.080J	**0.13**	<0.12	<0.12
pyrene	129-00-0	2,200	2,200	<0.12	<0.12	0.20J	0.59	0.28	<0.13	0.33	0.058J	0.074J	**0.25**	**1.2**	**0.92**	<0.12	<0.12	**0.63**	**7.0**	<0.12	0.024J	**0.11**	**0.13**	<0.12	<0.12
benzo(a)anthracene	56-55-3	26	340	<0.12	<0.12	0.16J	**0.47**	**0.19**	<0.13	**0.23**	0.036J	0.0436J	0.14	0.83	0.55	<0.12	<0.12	0.43	5.4	<0.12	<0.13	0.062J	0.14	<0.12	<0.12
chrysene	218-01-9	220	230	<0.12	<0.12	0.21J	**0.63**	**0.23**	<0.13	**0.22**	0.040J	0.047J	0.17	0.75	0.51	<0.12	<0.12	0.43	5.0	<0.12	<0.13	0.11	0.18	<0.12	<0.12
benzo(b)fluoranthene	205-99-2	25	170	<0.12	<0.12	0.33J	**1.0**	**0.28**	<0.13	**0.29**	0.050J	0.057J	**0.17**	**1.0**	**0.61**	<0.12	<0.12	**0.46**	**6.4**	<0.12	<0.13	0.074J	**0.33**	<0.12	<0.12
benzo(k)fluoranthene	207-08-9	200	610	<0.12	<0.12	<0.53	**0.26**	0.10J	<0.13	0.084J	<0.11	<0.11	0.044J	**0.27**	**0.21**	<0.12	<0.12	**0.12**	**1.8**	<0.12	<0.13	<0.10	0.083J	<0.12	<0.12
benzo(a)pyrene	50-32-8	46	46	<0.16	<0.16	<0.70	**0.44**	**0.20**	<0.17	**0.21**	<0.14	<0.15	0.14J	0.70	0.48	<0.16	<0.16	0.31	**4.8**	<0.16	<0.17	0.041J	0.26	<0.16	<0.16
indeno (1,2,3-cd) pyrene	193-39-5	1,400	18,000	<0.16	<0.16	0.13J	**0.43**	0.13J	<0.17	**0.14**	<0.14	0.028J	0.083J	**0.43**	**0.28**	<0.16	<0.16	**0.20**	**3.0**	<0.16	<0.17	0.044J	**0.25**	<0.16	<0.16
dibenzo(a,h)anthracene	53-70-3	23	270	<0.12	<0.12	<0.53	**0.15**	0.036J	<0.13	0.038J	<0.11	<0.11	0.023J	**0.13**	0.072J	<0.12	<0.12	**0.054**	**0.62**	<0.12	<0.13	<0.10	0.052J	<0.12	<0.12
benzo(g,h,i)perylene	191-24-2	180	180	<0.16	<0.16	0.16J	**0.60**	**0.15**	<0.17	**0.14**	0.024J	<0.029J	0.089J	**0.41**	**0.27**	<0.16	<0.16	**0.20**	**2.9**	<0.16	<0.17	0.064J	**0.30**	<0.16	<0.16
Total Petroleum Hydrocarbons																									
Gasoline Range Organics	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diesel Range Organics	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 3: Used Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-224 (0.0-2.0)	FROG-SS-224 (4.5-5.0)	FROG-SS-224 (9.5-10.0)	FROG-SS-224 (14.5-15.0)	FROG-SS-225 (0.0-2.0)	FROG-SS-225 (4.5-5.0)	FROG-SS-225 (9.5-10.0)	FROG-SS-225 (14.5-15.0)	FROG-SS-301 (0.0-2.0)	FROG-SS-301 (9.0-9.5)	FROG-SS-302 (0.0-2.0)	FROG-SS-DUP-301	FROG-SS-302 (6.5-7.0)	FROG-SS-303 (0.0-2.0)	FROG-SS-303 (4.5-5.0)	FROG-SS-304 (0.0-2.0)	FROG-SS-304 (14.5-15.0)	FROG-SS-305 (0.0-2.0)	FROG-SS-305 (7.0-7.5)	FROG-SS-306 (0.0-2.0)	FROG-SS-306 (3.0-3.5)	FROG-SS-307 (0.0-2.0)
Metals																									
arsenic	7440-38-2	29	29	**7.70**	**10.1**	**7.28**	**9.78**	**5.10**	**3.89**	**2.26**	**3.13**	**7.56**	**12.4**	**8.07**	**5.83**	**8.81**	**9.63**	**11.9**	**9.72**	**24.3**	**9.07**	**10.7**	**9.72**	**8.81**	**10.1**
cobalt	7440-48-4	45	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
iron	7439-89-6	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
manganese	7439-96-5	2,000	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
nickel	7440-02-0	650	650	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds																									
naphthalene	91-20-3	25	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-methylnapthalene	91-57-6	25	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-chloronaphthalene	91-58-7	6,000	17,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
acenaphthylene	208-96-8	2,400	6,600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
acenaphthene	83-32-9	2,600	4,700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
fluorene	86-73-7	2,800	3,800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
phenanthrene	85-01-8	10,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
anthracene	120-12-7	350	350	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
fluoranthene	206-44-0	3,200	3,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pyrene	129-00-0	2,200	2,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(a)anthracene	56-55-3	26	340	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chrysene	218-01-9	220	230	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(b)fluoranthene	205-99-2	25	170	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(k)fluoranthene	207-08-9	200	610	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(a)pyrene	50-32-8	46	46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
indeno (1,2,3-cd) pyrene	193-39-5	1,400	18,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
dibenzo(a,h)anthracene	53-70-3	23	270	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(g,h,i)perylene	191-24-2	180	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons																									
Gasoline Range Organics	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diesel Range Organics	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 3: Used Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-307 (8.0-8.5)	FROG-SS-308 (0.0-2.0)	FROG-SS-308 (6.5-7.0)	FROG-SS-309 (0.0-2.0)	FROG-SS-309 (4.0-4.5)	FROG-SS-310 (0.0-2.0)	FROG-SS-310 (4.5-5.0)
Metals										
arsenic	7440-38-2	29	29	**13.1**	**8.97**	**10.9**	**9.57**	**5.78**	**5.36**	**4.76**
cobalt	7440-48-4	45	130	NA	NA	NA	NA	NA	NA	NA
iron	7439-89-6	-	-	NA	NA	NA	NA	NA	NA	NA
manganese	7439-96-5	2,000	2,000	NA	NA	NA	NA	NA	NA	NA
nickel	7440-02-0	650	650	NA	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds										
naphthalene	91-20-3	25	25	NA	NA	NA	NA	NA	NA	NA
2-methylnapthalene	91-57-6	25	100	NA	NA	NA	NA	NA	NA	NA
2-chloronaphthalene	91-58-7	6,000	17,000	NA	NA	NA	NA	NA	NA	NA
acenaphthylene	208-96-8	2,400	6,600	NA	NA	NA	NA	NA	NA	NA
acenaphthene	83-32-9	2,600	4,700	NA	NA	NA	NA	NA	NA	NA
fluorene	86-73-7	2,800	3,800	NA	NA	NA	NA	NA	NA	NA
phenanthrene	85-01-8	10,000	10,000	NA	NA	NA	NA	NA	NA	NA
anthracene	120-12-7	350	350	NA	NA	NA	NA	NA	NA	NA
fluoranthene	206-44-0	3,200	3,200	NA	NA	NA	NA	NA	NA	NA
pyrene	129-00-0	2,200	2,200	NA	NA	NA	NA	NA	NA	NA
benzo(a)anthracene	56-55-3	26	340	NA	NA	NA	NA	NA	NA	NA
chrysene	218-01-9	220	230	NA	NA	NA	NA	NA	NA	NA
benzo(b)fluoranthene	205-99-2	25	170	NA	NA	NA	NA	NA	NA	NA
benzo(k)fluoranthene	207-08-9	200	610	NA	NA	NA	NA	NA	NA	NA
benzo(a)pyrene	50-32-8	46	46	NA	NA	NA	NA	NA	NA	NA
indeno (1,2,3-cd) pyrene	193-39-5	1,400	18,000	NA	NA	NA	NA	NA	NA	NA
dibenzo(a,h)anthracene	53-70-3	23	270	NA	NA	NA	NA	NA	NA	NA
benzo(g,h,i)perylene	191-24-2	180	180	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons										
Gasoline Range Organics	-	-	-	NA	NA	NA	NA	NA	NA	NA
Diesel Range Organics	-	-	-	NA	NA	NA	NA	NA	NA	NA

Grey results are not detected above the laboratory reporting limit

Bold results are detected above laboratory reporting limit

Yellow Highlighted results exceed the PADEP residential soil-to-groundwater numeric values at a used aquifer with total dissolved solids ≤2500 (the higher of either the generic value or 100 times the groundwater MSC)

Orange Highlighted results exceed the PADEP non-residential soil-to-groundwater numeric values at a used aquifer with total dissolved solids ≤2500 (the higher of either the generic value or 100 times the groundwater MSC)

Gray Highligted results have a method detection limit that exceeds at least one MSC

J: Estimated value. The target analyte concentration is below the laboratory reporting limit, but above the method detection limit

B: The analyte was detected above the reporting limit in the associated method blank.

NA: Not Analyzed

Values following < are the laboratory reporting limit

Values following *< are the method detection limit and shown where the laboratory reporting limit exceeds an MSC

All values are expressed in milligrams per kilogram (mg/kg) = 1 part per million (ppm)

Sample results are compared to PADEP MSCs for several scenarios that are provided in 25 Pa. Code Chapter 250, Administration of the Land Recycling Program.

Table 4: Nonuse Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-201(1.0-2.0)	FROG-SS-201 (4.5-5.0)	FROG-SS-201 (9.5-10.)	FROG-SS-201 (14.5-15.0)	FROG-SS-202 (1.0-2.0)	FROG-SS-202 (5.0-5.5)	FROG-SS-202 (7.5-8.0)	FROG-SS-202 (9.0-9.5)	FROG-SS-203 (1.5-2.0)	FROG-SS-204 (1.0-2.0)	FROG-SS-204 (3.5-4.0)	FROG-SS-205 (1.0-2.0)	FROG-SS-DUP-202	FROG-SS-205 (3.5-4.0)	FROG-SS-206 (0.5-2.0)	FROG-SS-206 (4.5-5.0)	FROG-SS-206 (9.5-10.0)	FROG-SS-206 (10.5-11.0)	FROG-SS-207 (0.5-2.0)	FROG-SS-207 (4.5-5.0)	FROG-SS-207 (5.5-6.0)	FROG-SS-207 (6.5-7.0)
Metals																									
arsenic	7440-38-2	29,000	29,000	3.63J	**8.76**	**7.57**	**9.84**	**9.38**	**18.8**	**16.8**	**18.2**	**4.46**	**9.43**	**10.9**	**5.38**	**4.55**	**11.2**	**13.3**	**7.76**	**10.1**	**20.0**	**38.9**	**14.8**	**29.6**	**55.5**
cobalt	7440-48-4	45,000	130,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
iron	7439-89-6	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**50,300**	**41,300**	**43,400**	**37,200**	**31,200**	**31,900**	**40,900**	**84,100**	**70,200**	**103,000**	**54,600**
manganese	7439-96-5	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**13,600**	**11,200**	**2,250**	**925**	**189**	**1,680**	**536**	**51,600**	**615**	**904**	**814**
nickel	7440-02-0	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds																									
naphthalene	91-20-3	2,500	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-methylnapthalene	91-57-6	25	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-chloronaphthalene	91-58-7	6,000	17,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
acenaphthylene	208-96-8	18,000	18,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
acenaphthene	83-32-9	4,700	4,700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
fluorene	86-73-7	3,800	3,800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
phenanthrene	85-01-8	10,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
anthracene	120-12-7	350	350	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
fluoranthene	206-44-0	3,200	3,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pyrene	129-00-0	2,200	2,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(a)anthracene	56-55-3	960	960	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chrysene	218-01-9	230	230	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(b)fluoranthene	205-99-2	170	170	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(k)fluoranthene	207-08-9	610	610	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(a)pyrene	50-32-8	860	860	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
indeno (1,2,3-cd) pyrene	193-39-5	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
dibenzo(a,h)anthracene	53-70-3	270	270	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(g,h,i)perylene	191-24-2	180	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons																									
Gasoline Range Organics	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diesel Range Organics	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4: Nonuse Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-208 (0.0-2.0)	FROG-SS-208 (4.5-5.0)	FROG-SS-208 (9.5-10.0)	FROG-SS-208 (12.0-12.5)	FROG-SS-209 (0.0-2.0)	FROG-SS-209 (4.5-5.0)	FROG-SS-209 (9.5-10.0)	FROG-SS-209 (14.5-15.0)	FROG-SS-210 (0.0-2.0)	FROG-SS-210 (4.5-5.0)	FROG-SS-210 (9.5-10.0)	FROG-SS-210 (14.5-15.0)	FROG-SS-211 (0.0-2.0)	FROG-SS-211 (4.5-5.0)	FROG-SS-211 (7.5-8.0)	FROG-SS-211 (10.0-10.5)	FROG-SS-212 (0.0-2.0)	FROG-SS-212 (4.5-5.0)	FROG-SS-212 (5.0-7.0)	FROG-SS-212 (9.5-10.0)	FROG-SS-212 (13.5-14.0)	FROG-SS-213 (0.0-2.0)
Metals																									
arsenic	7440-38-2	29,000	29,000	**37.4**	**8.37**	**9.68**	**19**	**2.55**	**6.96**	**9.79**	**4.62**	**5.54**	**5.94**	**15.4**	**23**	**16.5**	**6.78**	**6.93**	**9.49**	**15.6**	**6.78**	NA	**6.18**	**7.30**	**2.79**
cobalt	7440-48-4	45,000	130,000	NA	NA	NA	NA	**5.70**	**4.80**	**9.53**	**17.4**	**6.68**	**7.93**	**17.8**	**12.7**	**63.4**	**9.88**	**8.36**	**5.94**	**57.2**	**75.1**	NA	**39.6**	**13.1**	NA
iron	7439-89-6	-	-	**144,000**	**37,800**	**42,600**	**44,900**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
manganese	7439-96-5	190,000	190,000	**6,500**	**216**	**1,660**	**891**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
nickel	7440-02-0	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**56.9**
Semivolatile Organic Compounds																									
naphthalene	91-20-3	2,500	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**13**	NA	NA	NA
2-methylnapthalene	91-57-6	25	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**69**	NA	NA	NA
2-chloronaphthalene	91-58-7	6,000	17,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2.6	NA	NA	NA
acenaphthylene	208-96-8	18,000	18,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2.1	NA	NA	NA
acenaphthene	83-32-9	4,700	4,700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**4.7**	NA	NA	NA
fluorene	86-73-7	3,800	3,800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**6.7**	NA	NA	NA
phenanthrene	85-01-8	10,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**10**	NA	NA	NA
anthracene	120-12-7	350	350	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.5J	NA	NA	NA
fluoranthene	206-44-0	3,200	3,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.56J	NA	NA	NA
pyrene	129-00-0	2,200	2,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.58J	NA	NA	NA
benzo(a)anthracene	56-55-3	960	960	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.6	NA	NA	NA
chrysene	218-01-9	230	230	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.6	NA	NA	NA
benzo(b)fluoranthene	205-99-2	170	170	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.6	NA	NA	NA
benzo(k)fluoranthene	207-08-9	610	610	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.6	NA	NA	NA
benzo(a)pyrene	50-32-8	860	860	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2.1	NA	NA	NA
indeno (1,2,3-cd) pyrene	193-39-5	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2.1	NA	NA	NA
dibenzo(a,h)anthracene	53-70-3	270	270	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	*<0.30	NA	NA	NA
benzo(g,h,i)perylene	191-24-2	180	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2.1	NA	NA	NA
Total Petroleum Hydrocarbons																									
Gasoline Range Organics	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**200**	NA	NA	NA
Diesel Range Organics	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**7,800**	NA	NA	NA

Table 4: Nonuse Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-213 (4.5-5.0)	FROG-SS-213 (9.5-10.0)	FROG-SS-213 (14.5-15.0)	FROG-SS-214 (0.0-2.0)	FROG-SS-214 (4.0-4.5)	FROG-SS-214 (5.0-5.5)	FROG-SS-214 (9.0-9.5)	FROG-SS-215 (0.0-2.0)	FROG-SS-215 (4.5-5.0)	FROG-SS-DUP-201	FROG-SS-215 (9.5-10.0)	FROG-SS-215 (14.5-15.0)	FROG-SS-216 (0.0-2.0)	FROG-SS-216 (4.5-5.0)	FROG-SS-216 (6.0-7.0)	FROG-SS-216 (7.5-8.0)	FROG-SS-217 (0.0-2.0)	FROG-SS-217 (4.0-5.0)	FROG-SS-217 (9.0-10.0)	FROG-SS-217 (11.0-12.0)	FROG-SS-218 (0.0-2.0)	FROG-SS-218 (4.0-5.0)
Metals																									
arsenic	7440-38-2	29,000	29,000	**4.37**	**4.58**	**5.27**	**3.78**	**9.55**	**4.04**	**11.3**	**3.10**	**4.17**	**3.88**	**1.55**	**6.23**	**5.08**	**1.74**	**9.05**	**2.86**	**9.05**	**19.5**	**10.5**	**17.6**	**9.45**	**11.9**
cobalt	7440-48-4	45,000	130,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
iron	7439-89-6	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
manganese	7439-96-5	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
nickel	7440-02-0	190,000	190,000	**10.9**	**17.8**	**18.5**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**165**	**97.9**	**18.6**	**40.3**	NA	NA
Semivolatile Organic Compounds																									
naphthalene	91-20-3	2,500	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.10**	**0.049**	<0.041	<0.043	0.11J	0.030J
2-methylnapthalene	91-57-6	25	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.19J	0.038J	<0.25	<0.26	<1.0	0.034J
2-chloronaphthalene	91-58-7	6,000	17,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.18	<0.20	<0.20	<0.21	<0.88	<0.19
acenaphthylene	208-96-8	18,000	18,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.14	0.13J	<0.16	<0.17	<0.70	<0.15
acenaphthene	83-32-9	4,700	4,700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.019J	0.046J	<0.16	<0.17	<0.70	<0.15
fluorene	86-73-7	3,800	3,800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.020J	0.082J	<0.20	<0.21	<0.88	<0.19
phenanthrene	85-01-8	10,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.24**	**1.2**	<0.12	<0.13	0.13J	0.053J
anthracene	120-12-7	350	350	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.11	**0.26**	<0.12	<0.13	<0.52	<0.11
fluoranthene	206-44-0	3,200	3,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.23	1.0	<0.12	<0.13	0.17J	0.055J
pyrene	129-00-0	2,200	2,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.20	1.0	<0.12	<0.13	0.18J	0.054J
benzo(a)anthracene	56-55-3	960	960	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.13**	**0.62**	<0.12	<0.13	0.12J	0.049J
chrysene	218-01-9	230	230	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.14**	**0.67**	<0.12	<0.13	0.13J	0.066J
benzo(b)fluoranthene	205-99-2	170	170	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.16**	**0.48**	<0.12	<0.13	0.18J	0.083J
benzo(k)fluoranthene	207-08-9	610	610	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.061J	**0.15**	<0.12	<0.13	<0.52	<0.11
benzo(a)pyrene	50-32-8	860	860	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.12J	**0.39**	<0.16	<0.17	<0.70	0.050J
indeno (1,2,3-cd) pyrene	193-39-5	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.084J	**0.19**	<0.16	<0.17	<0.70	0.040J
dibenzo(a,h)anthracene	53-70-3	270	270	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.022J	0.058J	<0.12	<0.13	<0.52	<0.11
benzo(g,h,i)perylene	191-24-2	180	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.091J	**0.20**	<0.16	<0.17	0.11J	0.048J
Total Petroleum Hydrocarbons																									
Gasoline Range Organics	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diesel Range Organics	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4: Nonuse Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-218 (9.0-10.0)	FROG-SS-218 (11.0-12.0)	FROG-SS-219 (0.0-2.0)	FROG-SS-DUP-204	FROG-SS-219 (4.0-5.0)	FROG-SS-219 (5.5-6.5)	FROG-SS-220 (0.0-2.0)	FROG-SS-220 (4.0-5.0)	FROG-SS-DUP-203	FROG-SS-220 (5.5-6.0)	FROG-SS-221 (0.0-2.0)	FROG-SS-221 (4.0-5.0)	FROG-SS-221 (9.0-10.0)	FROG-SS-221 (14.0-15.0)	FROG-SS-222 (0.0-2.0)	FROG-SS-222 (4.0-4.5)	FROG-SS-222 (9.0-10.0)	FROG-SS-222 (10.5-11.5)	FROG-SS-223 (0.0-2.0)	FROG-SS-223 (4.0-5.0)	FROG-SS-223 (9.0-10.0)	FROG-SS-223 (10.5-11.5)
Metals																									
arsenic	7440-38-2	29,000	29,000	**17**	**11.8**	**9.76**	**6.84**	**7.25**	**17.2**	**8.94**	**5.76**	4.21J	**11.4**	**6.93**	**25.3**	**4.33**	**4.42**	**10.5**	**9.80**	**7.18**	**13.7**	**4.59**	**5.93**	**11.0**	**9.17**
cobalt	7440-48-4	45,000	130,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
iron	7439-89-6	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
manganese	7439-96-5	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
nickel	7440-02-0	190,000	190,000	NA	NA	NA	NA	NA	NA	**493**	**599**	**531**	**18.7**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds																									
naphthalene	91-20-3	2,500	2,500	<0.041	<0.040	<0.18	**0.12**	**0.054**	<0.042	**0.049**	**0.040**	**0.037**	0.028J	**0.093**	**0.064**	<0.040	<0.039	**0.20**	**0.67**	<0.040	<0.043	**0.070**	**0.042**	<0.041	<0.041
2-methylnapthalene	91-57-6	25	100	<0.24	<0.24	<1.0	0.096J	0.068J	<0.25	0.059J	0.052J	0.045J	<0.23	0.11J	0.054J	<0.24	<0.24	**0.30**	**0.38**	<0.24	<0.26	0.15J	0.048J	<0.24	<0.25
2-chloronaphthalene	91-58-7	6,000	17,000	<0.20	<0.20	<0.88	<0.19	<0.19	<0.21	<0.18	<0.18	<0.18	<0.19	<0.17	<0.18	<0.20	<0.20	<0.18	<0.18	<0.20	<0.22	<0.17	<0.18	<0.20	<0.21
acenaphthylene	208-96-8	18,000	18,000	<0.16	<0.16	<0.70	0.089J	0.045J	<0.17	0.034J	<0.14	<0.15	0.031J	0.11J	0.034J	<0.16	<0.16	0.045J	0.047J	<0.16	<0.17	<0.13	<0.14	<0.16	<0.16
acenaphthene	83-32-9	4,700	4,700	<0.16	<0.16	<0.70	<0.15	<0.15	<0.17	<0.14	<0.14	<0.15	<0.16	0.065J	0.071J	<0.16	<0.16	0.10J	**2.2**	<0.16	<0.17	0.056J	<0.14	<0.16	<0.16
fluorene	86-73-7	3,800	3,800	<0.20	<0.20	<0.88	0.018J	<0.19	<0.21	0.019J	<0.18	<0.18	<0.19	0.072J	0.070J	<0.20	<0.20	0.11J	**1.1**	<0.20	<0.22	0.044J	<0.18	<0.20	<0.21
phenanthrene	85-01-8	10,000	10,000	<0.12	<0.12	0.11J	**0.34**	**0.16**	<0.13	**0.21**	0.074J	0.067J	**0.12**	**0.88**	**0.74**	<0.12	<0.12	**0.79**	**11**	<0.12	0.037J	**0.13**	**0.12**	<0.12	<0.12
anthracene	120-12-7	350	350	<0.12	<0.12	<0.53	0.082J	0.039J	<0.13	0.060J	<0.11	<0.11	<0.12	**0.22**	**0.22**	<0.12	<0.12	**0.15**	**2.1**	<0.12	<0.13	<0.10	<0.10	<0.12	<0.12
fluoranthene	206-44-0	3,200	3,200	<0.12	<0.12	0.23J	0.63	0.29	<0.13	0.40	0.072J	0.083J	**0.21**	**1.4**	**1.1**	<0.12	<0.12	**0.82**	**12**	<0.12	0.027J	0.080J	**0.13**	<0.12	<0.12
pyrene	129-00-0	2,200	2,200	<0.12	<0.12	0.20J	0.59	0.28	<0.13	0.33	0.058J	0.074J	**0.25**	**1.2**	**0.92**	<0.12	<0.12	**0.63**	**7.0**	<0.12	0.024J	**0.11**	**0.13**	<0.12	<0.12
benzo(a)anthracene	56-55-3	960	960	<0.12	<0.12	0.16J	**0.47**	**0.19**	<0.13	**0.23**	0.036J	0.0436J	0.14	0.83	0.55	<0.12	<0.12	0.43	5.4	<0.12	<0.13	0.062J	0.14	<0.12	<0.12
chrysene	218-01-9	230	230	<0.12	<0.12	0.21J	**0.63**	**0.23**	<0.13	**0.22**	0.040J	0.047J	0.17	0.75	0.51	<0.12	<0.12	0.43	5.0	<0.12	<0.13	0.11	0.18	<0.12	<0.12
benzo(b)fluoranthene	205-99-2	170	170	<0.12	<0.12	0.33J	**1.0**	**0.28**	<0.13	**0.29**	0.050J	0.057J	**0.17**	**1.0**	**0.61**	<0.12	<0.12	**0.46**	**6.4**	<0.12	<0.13	0.074J	**0.33**	<0.12	<0.12
benzo(k)fluoranthene	207-08-9	610	610	<0.12	<0.12	<0.53	**0.26**	0.10J	<0.13	0.084J	<0.11	<0.11	0.044J	**0.27**	**0.21**	<0.12	<0.12	**0.12**	**1.8**	<0.12	<0.13	<0.10	0.083J	<0.12	<0.12
benzo(a)pyrene	50-32-8	860	860	<0.16	<0.16	<0.70	**0.44**	**0.20**	<0.17	**0.21**	<0.14	<0.15	0.14J	0.70	0.48	<0.16	<0.16	0.31	**4.8**	<0.16	<0.17	0.041J	0.26	<0.16	<0.16
indeno (1,2,3-cd) pyrene	193-39-5	190,000	190,000	<0.16	<0.16	0.13J	**0.43**	0.13J	<0.17	**0.14**	<0.14	0.028J	0.083J	**0.43**	**0.28**	<0.16	<0.16	**0.20**	**3.0**	<0.16	<0.17	0.044J	**0.25**	<0.16	<0.16
dibenzo(a,h)anthracene	53-70-3	270	270	<0.12	<0.12	<0.53	**0.15**	0.036J	<0.13	0.038J	<0.11	<0.11	0.023J	**0.13**	0.072J	<0.12	<0.12	**0.054**	**0.62**	<0.12	<0.13	<0.10	0.052J	<0.12	<0.12
benzo(g,h,i)perylene	191-24-2	180	180	<0.16	<0.16	0.16J	**0.60**	**0.15**	<0.17	**0.14**	0.024J	<0.029J	0.089J	**0.41**	**0.27**	<0.16	<0.16	**0.20**	**2.9**	<0.16	<0.17	0.064J	**0.30**	<0.16	<0.16
Total Petroleum Hydrocarbons																									
Gasoline Range Organics	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diesel Range Organics	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4: Nonuse Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-224 (0.0-2.0)	FROG-SS-224 (4.5-5.0)	FROG-SS-224 (9.5-10.0)	FROG-SS-224 (14.5-15.0)	FROG-SS-225 (0.0-2.0)	FROG-SS-225 (4.5-5.0)	FROG-SS-225 (9.5-10.0)	FROG-SS-225 (14.5-15.0)	FROG-SS-301 (0.0-2.0)	FROG-SS-301 (9.0-9.5)	FROG-SS-302 (0.0-2.0)	FROG-SS-DUP-301	FROG-SS-302 (6.5-7.0)	FROG-SS-303 (0.0-2.0)	FROG-SS-303 (4.5-5.0)	FROG-SS-304 (0.0-2.0)	FROG-SS-304 (14.5-15.0)	FROG-SS-305 (0.0-2.0)	FROG-SS-305 (7.0-7.5)	FROG-SS-306 (0.0-2.0)	FROG-SS-306 (3.0-3.5)	FROG-SS-307 (0.0-2.0)
Metals																									
arsenic	7440-38-2	29,000	29,000	**7.70**	**10.1**	**7.28**	**9.78**	**5.10**	**3.89**	**2.26**	**3.13**	**7.56**	**12.4**	**8.07**	**5.83**	**8.81**	**9.63**	**11.9**	**9.72**	**24.3**	**9.07**	**10.7**	**9.72**	**8.81**	**10.1**
cobalt	7440-48-4	45,000	130,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
iron	7439-89-6	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
manganese	7439-96-5	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
nickel	7440-02-0	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds																									
naphthalene	91-20-3	2,500	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-methylnapthalene	91-57-6	25	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-chloronaphthalene	91-58-7	6,000	17,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
acenaphthylene	208-96-8	18,000	18,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
acenaphthene	83-32-9	4,700	4,700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
fluorene	86-73-7	3,800	3,800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
phenanthrene	85-01-8	10,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
anthracene	120-12-7	350	350	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
fluoranthene	206-44-0	3,200	3,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pyrene	129-00-0	2,200	2,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(a)anthracene	56-55-3	960	960	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chrysene	218-01-9	230	230	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(b)fluoranthene	205-99-2	170	170	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(k)fluoranthene	207-08-9	610	610	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(a)pyrene	50-32-8	860	860	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
indeno (1,2,3-cd) pyrene	193-39-5	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
dibenzo(a,h)anthracene	53-70-3	270	270	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(g,h,i)perylene	191-24-2	180	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons																									
Gasoline Range Organics	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diesel Range Organics	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4: Nonuse Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-307 (8.0-8.5)	FROG-SS-308 (0.0-2.0)	FROG-SS-308 (6.5-7.0)	FROG-SS-309 (0.0-2.0)	FROG-SS-309 (4.0-4.5)	FROG-SS-310 (0.0-2.0)	FROG-SS-310 (4.5-5.0)
Metals										
arsenic	7440-38-2	29,000	29,000	**13.1**	**8.97**	**10.9**	**9.57**	**5.78**	**5.36**	**4.76**
cobalt	7440-48-4	45,000	130,000	NA	NA	NA	NA	NA	NA	NA
iron	7439-89-6	-	-	NA	NA	NA	NA	NA	NA	NA
manganese	7439-96-5	190,000	190,000	NA	NA	NA	NA	NA	NA	NA
nickel	7440-02-0	190,000	190,000	NA	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds										
naphthalene	91-20-3	2,500	2,500	NA	NA	NA	NA	NA	NA	NA
2-methylnapthalene	91-57-6	25	100	NA	NA	NA	NA	NA	NA	NA
2-chloronaphthalene	91-58-7	6,000	17,000	NA	NA	NA	NA	NA	NA	NA
acenaphthylene	208-96-8	18,000	18,000	NA	NA	NA	NA	NA	NA	NA
acenaphthene	83-32-9	4,700	4,700	NA	NA	NA	NA	NA	NA	NA
fluorene	86-73-7	3,800	3,800	NA	NA	NA	NA	NA	NA	NA
phenanthrene	85-01-8	10,000	10,000	NA	NA	NA	NA	NA	NA	NA
anthracene	120-12-7	350	350	NA	NA	NA	NA	NA	NA	NA
fluoranthene	206-44-0	3,200	3,200	NA	NA	NA	NA	NA	NA	NA
pyrene	129-00-0	2,200	2,200	NA	NA	NA	NA	NA	NA	NA
benzo(a)anthracene	56-55-3	960	960	NA	NA	NA	NA	NA	NA	NA
chrysene	218-01-9	230	230	NA	NA	NA	NA	NA	NA	NA
benzo(b)fluoranthene	205-99-2	170	170	NA	NA	NA	NA	NA	NA	NA
benzo(k)fluoranthene	207-08-9	610	610	NA	NA	NA	NA	NA	NA	NA
benzo(a)pyrene	50-32-8	860	860	NA	NA	NA	NA	NA	NA	NA
indeno (1,2,3-cd) pyrene	193-39-5	190,000	190,000	NA	NA	NA	NA	NA	NA	NA
dibenzo(a,h)anthracene	53-70-3	270	270	NA	NA	NA	NA	NA	NA	NA
benzo(g,h,i)perylene	191-24-2	180	180	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons										
Gasoline Range Organics	-	-	-	NA	NA	NA	NA	NA	NA	NA
Diesel Range Organics	-	-	-	NA	NA	NA	NA	NA	NA	NA

Grey results are not detected above the laboratory reporting limit

Bold results are detected above laboratory reporting limit

Yellow Highlighted results exceed the PADEP residential soil-to-groundwater numeric values at a used aquifer with total dissolved solids ≤2500 (the higher of either the generic value or 100 times the groundwater MSC)

Orange Highlighted results exceed the PADEP non-residential soil-to-groundwater numeric values at a used aquifer with total dissolved solids ≤2500 (the higher of either the generic value or 100 times the groundwater MSC)

Gray Highligted results have a method detection limit that exceeds at least one MSC

J: Estimated value. The target analyte concentration is below the laboratory reporting limit, but above the method detection limit

B: The analyte was detected above the reporting limit in the associated method blank.

NA: Not Analyzed

Values following < are the laboratory reporting limit

Values following *< are the method detection limit and shown where the laboratory reporting limit exceeds an MSC

All values are expressed in milligrams per kilogram (mg/kg) = 1 part per million (ppm)

Sample results are compared to PADEP MSCs for several scenarios that are provided in 25 Pa. Code Chapter 250, Administration of the Land Recycling Program.

Table 5: Soil Contaminants of Concern

Contaminant	Maximum Concentration	Direct Contact MSC Exceedances	Used Aquifer Soil-to-Groundwater MSC Exceedances	Nonuse Aquifer Soil-to-Groundwater MSC Exceedances
Metals				
Arsenic	138 mg/kg	Residential (37/133) Non-Residential (1/133)	Residential (6/133) Non-Residential (6/133)	None
Cobalt	101 mg/kg	Residential (3/58)	Residential (11/58)	None
Iron	194,000 mg/kg	Residential (2/56) Non-Residential (1/56)	None	None
Manganese	60,900 mg/kg	Residential (3/56)	Residential (25/56) Non-Residential (25/56)	None
Nickel	1,270 mg/kg	None	Residential (6/42) Non-Residential (6/42)	None
Semivolatile Organic Compounds				
Biphenyl	0.53 mg/kg	None	Residential (1/42)	None
2-methylnapthalene	69 mg/kg	Residential (1/27)	None	None
Benzo(a)anthracene	6.6 mg/kg	Residential (1/69)	None	None
Benzo(b)fluoranthene	9.5 mg/kg	Residential (3/69)	None	None
Benzo(a)pyrene	6.7 mg/kg	Residential (2/69)	None	None
Indeno(1,2,3-cd)pyrene	3.8 mg/kg	Residential (1/69)	None	None

Notes:

1. Numbers in parentheses correspond to number of soil samples exceeding the MSC out of the total number of samples analyzed for that contaminant. Field sample and field duplicate sample pairs are counted as one sample. Numbers include both the Intial and Supplemental Phase II ESAs. Samples from the arsenic background study area are not counted.

2. Sample results are compared to PADEP MSCs that are provided in 25 Pa. Code Chapter 250, Administration of the Land Recycling Program:

-Direct contact numeric values for residential soil (0-15 feet) and non-residential surface (0-2 feet) and subsurface (2-15 feet) soil.

-Soil-to-groundwater residential and non-residential numeric values at a used aquifer with total dissolved solids ≤2500 mg/L (the higher of either the generic value or 100 times the groundwater MSC)

-Soil-to-groundwater residential and non-residential numeric values at a nonuse aquifer (the higher of either the generic value or 100 times the groundwater MSC)

Appendix A

Photograph Log

1. Photo No:	1	2. Facility	Frog Switch
3. Date:	10/14/2025	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Ground penetrating radar being used during the geophysical survey to identify potential underground storage tanks and buried utilities prior to soil sampling activities.			



1. Photo No:	2	2. Facility	Frog Switch
3. Date:	10/15/2025	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Soil borings being advanced by direct push with a Geoprobe® drilling rig.			



1. Photo No:	3	2. Facility	Frog Switch
3. Date:	10/17/2025	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-101. Photo faces southeast.			



1. Photo No:	4	2. Facility	Frog Switch
3. Date:	10/17/2025	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-101.			



1. Photo No:	5	2. Facility	Frog Switch
3. Date:	10/17/2025	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-102. Photo faces southwest.			



1. Photo No:	6	2. Facility	Frog Switch
3. Date:	10/17/2025	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-102.			



1. Photo No:	7	2. Facility	Frog Switch
3. Date:	10/15/2025	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-103. Photo faces east.			



1. Photo No:	8	2. Facility	Frog Switch
3. Date:	10/15/2025	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-103.			



1. Photo No:	9	2. Facility	Frog Switch
3. Date:	10/15/2025	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-104. Photo faces southeast.			



1. Photo No:	10	2. Facility	Frog Switch
3. Date:	10/15/2025	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-104.			



1. Photo No:	11	2. Facility	Frog Switch
3. Date:	10/15/2025	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-105. Photo faces southwest.			



1. Photo No:	12	2. Facility	Frog Switch
3. Date:	10/15/2025	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-105.			



1. Photo No:	13	2. Facility	Frog Switch
3. Date:	10/15/2025	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-108. Photo faces south.			



1. Photo No:	14	2. Facility	Frog Switch
3. Date:	10/15/2025	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-108.			



1. Photo No:	15	2. Facility	Frog Switch
3. Date:	10/15/2025	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-109. Photo faces south.			



1. Photo No:	16	2. Facility	Frog Switch
3. Date:	10/15/2025	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-109.			



1. Photo No:	17	2. Facility	Frog Switch
3. Date:	10/15/2025	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-110. Photo faces west.			



1. Photo No:	18	2. Facility	Frog Switch
3. Date:	10/15/2025	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-110.			



1. Photo No:	19	2. Facility	Frog Switch
3. Date:	10/16/2025	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-111. Photo faces north.			



1. Photo No:	20	2. Facility	Frog Switch
3. Date:	10/16/2025	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-111.			



1. Photo No:	21	2. Facility	Frog Switch
3. Date:	10/16/2025	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-112. Photo faces south.			



1. Photo No:	22	2. Facility	Frog Switch
3. Date:	10/16/2025	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-112.			



1. Photo No:	23	2. Facility	Frog Switch
3. Date:	10/20/2025	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-113. Photo faces east.			



1. Photo No:	24	2. Facility	Frog Switch
3. Date:	10/20/2025	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-113.			



1. Photo No:	25	2. Facility	Frog Switch
3. Date:	10/20/2025	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-114. Photo faces southeast.			



1. Photo No:	26	2. Facility	Frog Switch
3. Date:	10/20/2025	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-114.			



1. Photo No:	27	2. Facility	Frog Switch
3. Date:	10/17/2025	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-115. Photo faces west.			



1. Photo No:	28	2. Facility	Frog Switch
3. Date:	10/17/2025	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-115.			



1. Photo No:	29	2. Facility	Frog Switch
3. Date:	10/17/2025	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-116. Photo faces northwest.			



1. Photo No:	30	2. Facility	Frog Switch
3. Date:	10/17/2025	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-116.			



1. Photo No:	31	2. Facility	Frog Switch
3. Date:	10/17/2025	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-117. Photo faces northwest.			



1. Photo No:	32	2. Facility	Frog Switch
3. Date:	10/17/2025	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-117.			



1. Photo No:	33	2. Facility	Frog Switch
3. Date:	10/16/2025	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-118. Photo faces west.			



1. Photo No:	34	2. Facility	Frog Switch
3. Date:	10/16/2025	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-118.			



1. Photo No:	35	2. Facility	Frog Switch
3. Date:	10/16/2025	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-119. Photo faces southwest.			



1. Photo No:	36	2. Facility	Frog Switch
3. Date:	10/16/2025	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-119.			



1. Photo No:	37	2. Facility	Frog Switch
3. Date:	10/16/2025	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-120. Photo faces south.			



1. Photo No:	38	2. Facility	Frog Switch
3. Date:	10/16/2025	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-120.			



1. Photo No:	39	2. Facility	Frog Switch
3. Date:	10/16/2025	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-121. Photo faces southwest.			



1. Photo No:	40	2. Facility	Frog Switch
3. Date:	10/16/2025	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-121.			



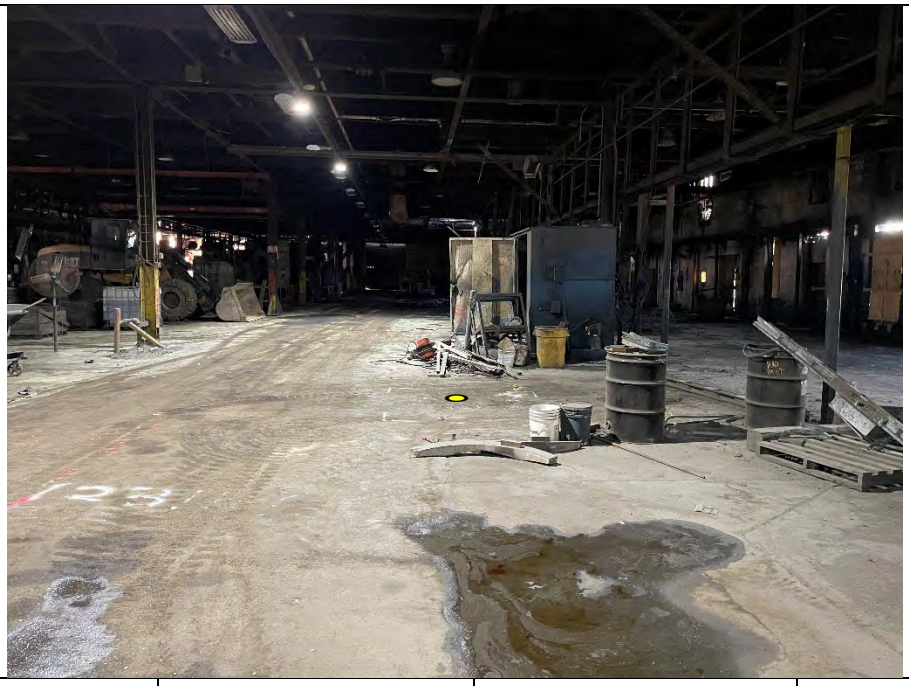
1. Photo No:	41	2. Facility	Frog Switch
3. Date:	10/20/2025	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-122. Photo faces east.			



1. Photo No:	42	2. Facility	Frog Switch
3. Date:	10/20/2025	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-122.			



1. Photo No:	43	2. Facility	Frog Switch
3. Date:	10/20/2025	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-123. Photo faces north.			



1. Photo No:	44	2. Facility	Frog Switch
3. Date:	10/20/2025	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-123.			



1. Photo No:	45	2. Facility	Frog Switch
3. Date:	10/21/2025	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of composite sample FROG-SS-124. Photo faces west.			



1. Photo No:	46	2. Facility	Frog Switch
3. Date:	10/21/2025	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of composite sample FROG-SS-125. Photo faces southeast.			



1. Photo No:	47	2. Facility	Frog Switch
3. Date:	10/21/2025	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of composite sample FROG-SS-126. Photo faces southeast.			



1. Photo No:	48	2. Facility	Frog Switch
3. Date:	10/21/2025	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of sample FROG-SS-127. Photo faces northwest.			



1. Photo No:	49	2. Facility	Frog Switch
3. Date:	10/21/2025	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of sample FROG-SS-128. Photo faces northwest.			



1. Photo No:	50	2. Facility	Frog Switch
3. Date:	06/23/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Drill rig used for Supplemental Phase II soil borings.			



1. Photo No:	51	2. Facility	Frog Switch
3. Date:	06/23/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-201. Photo faces southwest.			



1. Photo No:	52	2. Facility	Frog Switch
3. Date:	06/23/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-201.			



1. Photo No:	53	2. Facility	Frog Switch
3. Date:	06/23/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-202. Photo faces southwest.			



1. Photo No:	54	2. Facility	Frog Switch
3. Date:	06/23/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-202.			



1. Photo No:	55	2. Facility	Frog Switch
3. Date:	06/23/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-203. Photo faces southwest.			



1. Photo No:	56	2. Facility	Frog Switch
3. Date:	06/23/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-203.			

Not Pictured

1. Photo No:	57	2. Facility	Frog Switch
3. Date:	06/23/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-204. Photo faces southwest.			



1. Photo No:	58	2. Facility	Frog Switch
3. Date:	06/23/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-204.			



1. Photo No:	59	2. Facility	Frog Switch
3. Date:	06/23/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-205. Photo faces southwest.			



1. Photo No:	60	2. Facility	Frog Switch
3. Date:	06/23/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-205.			



1. Photo No:	61	2. Facility	Frog Switch
3. Date:	06/23/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-206. Photo faces southwest.			



1. Photo No:	62	2. Facility	Frog Switch
3. Date:	06/23/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-206.			



1. Photo No:	63	2. Facility	Frog Switch
3. Date:	06/23/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-207. Photo faces south.			



1. Photo No:	64	2. Facility	Frog Switch
3. Date:	06/23/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-207.			



1. Photo No:	65	2. Facility	Frog Switch
3. Date:	06/24/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-208. Photo faces southwest.			



1. Photo No:	66	2. Facility	Frog Switch
3. Date:	06/24/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-208.			



1. Photo No:	67	2. Facility	Frog Switch
3. Date:	06/22/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-209. Photo faces southwest.			



1. Photo No:	68	2. Facility	Frog Switch
3. Date:	06/22/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-209.			



1. Photo No:	69	2. Facility	Frog Switch
3. Date:	06/22/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-210. Photo faces west.			



1. Photo No:	70	2. Facility	Frog Switch
3. Date:	06/22/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-210.			



1. Photo No:	71	2. Facility	Frog Switch
3. Date:	06/22/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-211. Photo faces west.			



1. Photo No:	72	2. Facility	Frog Switch
3. Date:	06/22/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-211.			



1. Photo No:	73	2. Facility	Frog Switch
3. Date:	06/22/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-212. Photo faces southwest.			



1. Photo No:	74	2. Facility	Frog Switch
3. Date:	06/22/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-212.			



1. Photo No:	75	2. Facility	Frog Switch
3. Date:	06/22/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-213. Photo faces south.			



1. Photo No:	76	2. Facility	Frog Switch
3. Date:	06/22/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-213.			



1. Photo No:	77	2. Facility	Frog Switch
3. Date:	06/22/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-214. Photo faces east.			



1. Photo No:	78	2. Facility	Frog Switch
3. Date:	06/22/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-214.			



1. Photo No:	79	2. Facility	Frog Switch
3. Date:	06/22/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-215. Photo faces south.			



1. Photo No:	80	2. Facility	Frog Switch
3. Date:	06/22/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-215.			



1. Photo No:	81	2. Facility	Frog Switch
3. Date:	06/22/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-216. Photo faces west.			



1. Photo No:	82	2. Facility	Frog Switch
3. Date:	06/22/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-216.			



1. Photo No:	83	2. Facility	Frog Switch
3. Date:	06/26/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-217. Photo faces south.			



1. Photo No:	84	2. Facility	Frog Switch
3. Date:	06/26/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-217.			



1. Photo No:	85	2. Facility	Frog Switch
3. Date:	06/25/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-218. Photo faces west.			



1. Photo No:	86	2. Facility	Frog Switch
3. Date:	06/25/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-218.			



1. Photo No:	87	2. Facility	Frog Switch
3. Date:	06/26/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-219. Photo faces north.			



1. Photo No:	88	2. Facility	Frog Switch
3. Date:	06/26/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-219.			



1. Photo No:	89	2. Facility	Frog Switch
3. Date:	06/25/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-220. Photo faces south.			



1. Photo No:	90	2. Facility	Frog Switch
3. Date:	06/25/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-220.			



1. Photo No:	91	2. Facility	Frog Switch
3. Date:	06/25/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-221. Photo faces east.			



1. Photo No:	92	2. Facility	Frog Switch
3. Date:	06/25/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-221.			



1. Photo No:	93	2. Facility	Frog Switch
3. Date:	06/25/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-222. Photo faces east.			



1. Photo No:	94	2. Facility	Frog Switch
3. Date:	06/25/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-222.			



1. Photo No:	95	2. Facility	Frog Switch
3. Date:	06/25/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-223. Photo faces east.			



1. Photo No:	96	2. Facility	Frog Switch
3. Date:	06/25/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-223.			



1. Photo No:	97	2. Facility	Frog Switch
3. Date:	06/26/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-224. Photo faces south.			



1. Photo No:	98	2. Facility	Frog Switch
3. Date:	06/26/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-224.			



1. Photo No:	99	2. Facility	Frog Switch
3. Date:	06/26/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-225. Photo faces south.			



1. Photo No:	100	2. Facility	Frog Switch
3. Date:	06/26/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-225.			



1. Photo No:	101	2. Facility	Frog Switch
3. Date:	06/24/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-301. Photo faces east.			



1. Photo No:	102	2. Facility	Frog Switch
3. Date:	06/24/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-301.			



1. Photo No:	103	2. Facility	Frog Switch
3. Date:	06/24/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-302. Photo faces west.			



1. Photo No:	104	2. Facility	Frog Switch
3. Date:	06/24/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-302.			



1. Photo No:	105	2. Facility	Frog Switch
3. Date:	06/24/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-303. Photo faces east.			



1. Photo No:	106	2. Facility	Frog Switch
3. Date:	06/24/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-303.			



1. Photo No:	107	2. Facility	Frog Switch
3. Date:	06/24/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-304. Photo faces south.			



1. Photo No:	108	2. Facility	Frog Switch
3. Date:	06/24/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-304.			



1. Photo No:	109	2. Facility	Frog Switch
3. Date:	06/24/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-305. Photo faces east.			



1. Photo No:	110	2. Facility	Frog Switch
3. Date:	06/24/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-305.			



1. Photo No:	111	2. Facility	Frog Switch
3. Date:	06/24/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-306. Photo faces east.			



1. Photo No:	112	2. Facility	Frog Switch
3. Date:	06/24/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-306.			



1. Photo No:	113	2. Facility	Frog Switch
3. Date:	06/24/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-307. Photo faces north.			



1. Photo No:	114	2. Facility	Frog Switch
3. Date:	06/24/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-307.			



1. Photo No:	115	2. Facility	Frog Switch
3. Date:	06/24/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-308. Photo faces north.			



1. Photo No:	116	2. Facility	Frog Switch
3. Date:	06/24/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-308.			



1. Photo No:	117	2. Facility	Frog Switch
3. Date:	06/24/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-309. Photo faces east.			



1. Photo No:	118	2. Facility	Frog Switch
3. Date:	06/24/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-309.			



1. Photo No:	119	2. Facility	Frog Switch
3. Date:	06/24/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Location of soil boring FROG-SB-310. Photo faces east.			



1. Photo No:	120	2. Facility	Frog Switch
3. Date:	06/24/2026	4. Photographer:	J. Klaybor (Volpe)
5. Location:	Carlisle, PA		
6. Description: Profile of soil boring FROG-SB-310.			



Appendix B

Soil Boring Logs

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-201

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by E. Paleo **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 15 ft. **Location** 316668.7 N 2128678.0 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 455.5 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/23/2026 **Date Completed** 06/23/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.4	28 / 60 in.	0-12" **Concrete**
2.0		0.5		12-20" brown/dark gray **Gravel** mixed with crushed stone and coarse sand
3.0		0.5		20-28" brown **silty Clay**
4.0		0.5		
5.0		0.4		28-60" No Recovery
6.0		0.4		
7.0		0.6		
8.0		0.6		
9.0		0.5	60 / 60 in.	0-60" brown **silty Clay**
10.0		0.5		
11.0		0.5		
12.0		0.5		
13.0		0.5		
14.0		0.5		
15.0		0.5		
16.0		0.5		
17.0		0.5		
18.0		0.5		
19.0		0.5		
20.0		0.5		
21.0		0.5		
22.0		0.5		
23.0		0.5		
24.0		0.5		
25.0		0.5		
		0.4	60 / 60 in.	0-60" brown **silty Clay** with some fall-in
		0.4		
		0.4		
		0.4		
		0.4		
		0.4		
		0.4		
		0.4		
				End of Boring

Notes: PID Background: 0.4 ppm
FROG-SS-201(1.0-2.0) collected at 0917
FROG-SS-201(4.5-5.0) collected at 0924
FROG-SS-201(9.5-10.0) collected at 0926 (FROG-SS-MS/MSD-202 collected here)
FROG-SS-201(14.5-15.0) collected at 0932

Project Frog Switch Phase II ESA

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-101

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by L. Cesic **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 5 ft. **Location** 316823.0 N 2128462.1 E (PA StatePlane S., US ft.) **GW Depth During Drilling** 454.1 ft.

Boring Diameter 2 in. **Ground Elevation** - ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 10/17/2025 **Date Completed** 10/17/2025

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.0	44 / 60 in.	0-6" **Asphalt**
		0.0		6-10" black **silt Loam** with pebbles up to 1/2 in., moist, no odor, no staining
2.0		0.0		
		0.0		10-44" brown **silty Clay** with gray crushed limestone mixed into bottom 7"., moist, no odor, no staining
3.0		0.0		
4.0		0.0		44"-60" No Recovery
5.0				
6.0				Refusal at Limestone
7.0				
8.0				
9.0				
10.0				
11.0				
12.0				
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: FROG-SS-101(0.0-2.0) collected at 1240
FROG-SS-101(3.0-5.0) collected at 1241
FROG-SS-FB-103 collected at 1210

Project Frog Switch Phase II ESA

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-102

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by L. Cesic **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 21 ft. **Location** 316841.1 N 2128458.0 E (PA StatePlane S., US ft.) **GW Depth During Drilling** 454.3 ft.

Boring Diameter 2 in. **Ground Elevation** - ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 10/17/2025 **Date Completed** 10/17/2025

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.0	18 / 60 in.	0-18" brown **silty Clay** with pebbles in the bottom ft. and roots, moist, no odor, no staining
2.0		0.0		
3.0		0.0		18-60" No Recovery
4.0				
5.0				
6.0		0.0	36 / 60 in.	0-12" Concrete
7.0		0.0		12-36" brown **silty Clay**, moist, no odor, no staining
8.0		0.0		
9.0		0.0		36-60" No Recovery
10.0				
11.0		0.0	50 / 60 in.	0-50" brown **silty Clay** with concrete from 7-9", moist, no odor, no staining
12.0		0.0		
13.0		0.0		
14.0		0.0		
15.0		0.0		50-60" No Recovery
16.0		0.0	16 / 60 in.	0-16" brown **silty Clay**, high moisture content, no odor, no staining
17.0		0.0		
18.0		0.0		16-60" No Recovery
19.0				
20.0				
21.0		0.0	12/12	0-12" brown **silty Clay**, high moisture content, no odor, no staining
22.0		0.0		Refusal at Limestone
23.0				
24.0				
25.0				

Notes: FROG-SS-102(0.0-2.0) collected at 1345
FROG-SS-102(19.0-21.0) collected at 1351

Project Frog Switch Phase II ESA

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-103

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by L. Cesic **Checked by** J. Klaybor **Page** 1 of 2

Boring Depth 30 ft. **Location** 316426.4 N 2128975.0 E (PA StatePlane S., US ft.) **GW Depth During Drilling** 457.4 ft.

Boring Diameter 2 in. **Ground Elevation** - ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 10/15/2025 **Date Completed** 10/15/2025

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.0	60 / 60 in.	0-4" dark brown **sandy Loam** with moss, moist, no odor, no staining
2.0		0.0 0.0 0.0		4-36" reddish brown **silty Clay** with light brown and gray granules and pebbles up to 1/2 in. mixed in, moist, no odor, no staining
3.0		0.0 0.0 0.0		
4.0		0.0 0.0		36-60" reddish brown **silty Clay**, moist, no odor, no staining
5.0		0.0		
6.0		0.0	60 / 60 in.	0-30" reddish brown **silty Clay** with some black fine to medium sand mixed in, moist, no odor, no staining
7.0		0.0 0.0 0.0		
8.0		0.0 0.0 0.0		30-60" brown **silty Clay**, moist, no odor, no staining
9.0		0.0 0.0		
10.0		0.0		
11.0		0.0	60 / 60 in.	0-60" brown **silty Clay**, moist, no odor, no staining
12.0		0.0 0.0 0.0		
13.0		0.0 0.0 0.0		
14.0		0.0 0.0		
15.0		0.0		
16.0		0.0	60 / 60 in.	0-60" brown **silty Clay**, moist, no odor, no staining
17.0		0.0 0.0 0.0		
18.0		0.0 0.0 0.0		
19.0		0.0 0.0		
20.0		0.0		
21.0		0.0	42 / 60 in.	0-24" brown **silty Clay** with black sand and roots at 12", moist, no odor, no staining
22.0		0.0 0.2		
23.0		8.2 50.4		24-42" light brown **Clay**, high moisture content beginning at 30", no odor, no staining
24.0		47.2		42-60" No Recovery
25.0				

Notes: FROG-SS-103(0.0-2.0) collected at 1445
FROG-SS-103(28.0-30.0) collected at 1513
FROG-SS-FB-101 collected at 1530

Project Frog Switch Phase II ESA	**Boring ID**	Boring Log
Location Frog, Switch & Manufacturing Co., Carlisle, PA	FROG-SB-103	U.S. Department of Transportation Volpe Center
Sponsor U.S. EPA Region 3 Brownfields	**Permit #** N/A	

Logged by L. Cesic **Checked by** J. Klaybor **Page** 2 of 2

Boring Depth 30 ft. **Location** 316426.4 N 2128975.0 E (PA StatePlane S., US ft.) **GW Depth During Drilling** 457.4 ft.

Boring Diameter 2 in. **Ground Elevation** - ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 10/15/2025 **Date Completed** 10/15/2025

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
25.0				
26.0		0.0	60 / 60 in.	0-42" brown **silty Clay**, moist, no odor, no staining
27.0		0.0		
28.0		0.0		
29.0		1.7		
30.0		0.7		42-60" brown and dark gray **silty Clay**, high moisture content, no odor, no staining
31.0		14.0		
32.0		35.0		
33.0		60.9		
34.0				Refusal at Limestone
35.0				
36.0				
37.0				
38.0				
39.0				
40.0				
41.0				
42.0				
43.0				
44.0				
45.0				
46.0				
47.0				
48.0				
49.0				
50.0				

Notes: FROG-SS-103(0.0-2.0) collected at 1445
FROG-SS-103(28.0-30.0) collected at 1513
FROG-SS-FB-101 collected at 1530

Project Frog Switch Phase II ESA

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-104

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by L. Cesic **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 11.5 ft. **Location** 316418.0 N 2129014.0 E (PA StatePlane S., US ft.) **GW Depth During Drilling** 457.6 ft.

Boring Diameter 2 in. **Ground Elevation** - ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 10/15/2025 **Date Completed** 10/15/2025

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.0	60 / 60 in.	0-5" dark brown **sandy Loam** with grass and organic material, moist, no odor, no staining
2.0		0.0		
3.0		0.0		5-60" brown **silty Clay**, moist, no odor, no staining
4.0		0.0		
5.0		0.0		
6.0		0.0	60 / 60 in.	0-12" brown **silty Clay** with dark brown fine to medium sand mixed in, moist, no odor, no staining
7.0		0.0		
8.0		0.0		12-60" brown **silty Clay**, moist, no odor, no staining
9.0		0.0		
10.0		0.0		
11.0		0.0	18/18	0-18" brown silty Clay with fine to medium sand fall in and crushed limestone mixed in, moist, no odor, no staining
12.0		0.0		
13.0				Refusal at Limestone
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: FROG-SS-104(0.0-2.0) collected at 1343
FROG-SS-104(10.0-11.5) collected at 1347 (FROG-SS-MS/MSD-101 collected here)

Project Frog Switch Phase II ESA

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-105

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by L. Cesic **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 20 ft. **Location** 316443.9 N 2129016.4 E (PA StatePlane S., US ft.) **GW Depth During Drilling** 457.2 ft.

Boring Diameter 2 in. **Ground Elevation** - ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 10/15/2025 **Date Completed** 10/15/2025

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.0	48 / 60 in.	0-12" **Concrete**
2.0		0.0 0.4		
3.0		0.6 3.2		12-36" **Urban Fill**, brown and black silty Clay Loam with pebbles up to 1/2 in., gravel, and glass, moist, petroleum-like odor
4.0		0.9 1.3		36-48" brown **silty Clay**, moist, no odor, no staining
5.0		1.3		48-60" No Recovery
6.0		3.5 57.0	30 / 60 in.	0-30" brown **silty Clay** with a 3 in. thick layer of concrete at 7", moist, no odor, no staining
7.0		52.3		
8.0		94.2 55.8		
9.0				30-60" No Recovery
10.0				
11.0		6.3 17.7	60 / 60 in.	0-60" brown **silty Clay** with concrete dust fall in, moist, no odor, no staining
12.0		4.9 14.7		
13.0		60.4 41.9		
14.0		37.7		
15.0		105.7		
16.0		3.3 10.0	48 / 60 in.	0-48" brown **silty Clay**, moist, no odor, no staining
17.0		7.5 16.4		
18.0		11.5 19.9		
19.0		3.1		
20.0		28.5 4.7		48-60" brown **Clay** with some layers of light gray sand, moist, no odor, no staining
21.0				Refusal at Limestone
22.0				
23.0				
24.0				
25.0				

Notes: FROG-SS-105(1.0-3.0) collected at 1152
FROG-SS-105(13.0-15.0) collected at 1154

Project Frog Switch Phase II ESA

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-108

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by L. Cesic **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 7.5 ft. **Location** 316445.6 N 2129152.0 E (PA StatePlane S., US ft.) **GW Depth During Drilling** 458.0 ft.

Boring Diameter 2 in. **Ground Elevation** - ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 10/15/2025 **Date Completed** 10/15/2025

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.0	48 / 60 in.	0-12" **Gravel** mixed with crushed stone
2.0		0.0		12-18" dark gray **silt Loam** with pebbles up to 1 in., moist, no odor, no staining
3.0		0.0		18-30" black and light brown fine to medium **Sand** with granules, moist, no odor, no staining
4.0		0.0		30-48" brown **silty Clay**, moist, no odor, no staining
5.0		0.0		48-60" No Recovery
6.0		0.0	30 / 30 in.	0-30" brown **silty Clay** with gray crushed rock, moist, no odor, no staining
7.0		0.0		
8.0		0.0		Refusal at Limestone
9.0				
10.0				
11.0				
12.0				
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: FROG-SS-108(1.0-3.0) collected at 0950
FROG-SS-108(5.5-7.5) collected at 0956 (FROG-SS-DUP-101 collected here)

Project Frog Switch Phase II ESA

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-109

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by L. Cesic **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 10 ft. **Location** 316528.5 N 2129167.0 E (PA StatePlane S., US ft.) **GW Depth During Drilling** 457.9 ft.

Boring Diameter 2 in. **Ground Elevation** - ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 10/15/2025 **Date Completed** 10/15/2025

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.0	58 / 60 in.	0-32" **Gravel** mixed with crushed stone
2.0		0.0		
3.0		0.0		
4.0		0.0		32-58" brown **silty Clay** with some roots, moist, no odor, no staining
5.0		0.0		58-60" No Recovery
6.0		0.0	60 / 60 in.	0-60" brown **silty Clay** with some roots and granules mixed in, moist, no odor, no staining
7.0		0.0		
8.0		0.0		
9.0		0.0		
10.0		0.0		
11.0				Refusal at Limestone
12.0				
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: FROG-SS-109(2.5-4.5) collected at 0858
FROG-SS-10(8.0-10.0) collected at 0847

Project Frog Switch Phase II ESA

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-110

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by L. Cesic **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 13.5 ft. **Location** 316556.5 N 2129152.3 E (PA StatePlane S., US ft.) **GW Depth During Drilling** 458.0 ft.

Boring Diameter 2 in. **Ground Elevation** - ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 10/15/2025 **Date Completed** 10/15/2025

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.0	54 / 60 in.	0-18" **Gravel** mixed with crushed stone
2.0		0.0 0.8 0.3		18-28" brown **silty Clay**, very compacted, moist, no odor, no staining
3.0		2.6 1.2		28-54" black fine to medium **Sand**, pebbles up to 1/2 in., moist, no odor, no staining, potential fill material
4.0		9.1		
5.0		1.3		54-60" No Recovery
6.0		1.5 1.3	58 / 60 in.	0-58" black fine to medium **Sand** with pebbles up to 1/2 in., moist, no odor, no staining, potential fill material
7.0		1.3		
8.0		0.9 1.4		
9.0		1.7 0.7		
10.0		1.5		58-60" No Recovery
11.0		2.1 0.8	42 / 42 in.	0-42" black fine to medium **Sand** with gravel fall in, moist, no odor, no staining, potential fill material
12.0		3.0		
13.0		1.7 4.9		
14.0		1.3		Refusal at Limestone
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: FROG-SS-110(1.5-3.5) collected at 1046
FROG-SS-110(5.0-7.0) collected at 1052

Project Frog Switch Phase II ESA

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-111

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by L. Cesic **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 11 ft. **Location** 317023.6 N 2129052.2 E (PA StatePlane S., US ft.) **GW Depth During Drilling** 456.1 ft.

Boring Diameter 2 in. **Ground Elevation** - ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 10/16/2025 **Date Completed** 10/16/2025

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.0	48 / 60 in.	0-12" brown **sandy Clay Loam** with grass at the surface, moist, no odor, no staining
2.0		0.0		12-20" dark brown fine to medium **Sand** under 1 in. layer of gray stone, moist, no odor, no staining
3.0		0.0		20-42" brown **silty Clay**
4.0		0.0		42-48" dark gray **Clay** with light brown very coarse Sand layers mixed in, moist, no odor, no staining
5.0		0.0		48-60" No Recovery
6.0		0.0	50 / 60 in.	0-14" dark gray **Clay** with light brown very coarse Sand layers mixed in, moist, no odor, no staining
7.0		0.0		
8.0		0.0		14-50" brown silty **Clay**, moist, no odor, no staining
9.0		0.0		
10.0		0.0		50-60" No Recovery
11.0		0.0	12/12	0-12" brown **silty Clay** over crushed limestone, moist, no odor, no staining
12.0				Refusal at Limestone
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: FROG-SS-111(0.0-2.0) collected at 1028
FROG-SS-111(10.0-11.0) collected at 1030

Project Frog Switch Phase II ESA

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-112

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by L. Cesic **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 9 ft. **Location** 317057.1 N 2129058.5 E (PA StatePlane S., US ft.) **GW Depth During Drilling** 456.2 ft.

Boring Diameter 2 in. **Ground Elevation** - ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 10/16/2025 **Date Completed** 10/16/2025

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.0 0.0 0.1	18 / 60 in.	0-18" black very fine to medium **Sand** with grass and pebbles up to 1 in. at the surface, moist, no odor, no staining
2.0				
3.0				18-60" No Recovery
4.0				
5.0				
6.0		0.0 0.0 0.0	18 / 48 in.	0-15" black very fine to medium **Sand** with gray medium to coarse Sand and gray pebbles mixed in, moist, no odor, no stain
7.0				15-18" brown **silty Clay**, moist, no odor, no staining
8.0				18-48" No Recovery
9.0				
10.0				Refusal at Limestone
11.0				
12.0				
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: FROG-SS-112(0.0-2.0) collected at 1120
FROG-SS-112(7.0-9.0) collected at 1122

Project Frog Switch Phase II ESA

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-113

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by L. Cesic **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 8 ft. **Location** 316931.3 N 2128442.3 E (PA StatePlane S., US ft.) **GW Depth During Drilling** 452.4 ft.

Boring Diameter 2 in. **Ground Elevation** - ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 10/20/2025 **Date Completed** 10/20/2025

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.0	36 / 60 in.	0-6" brown **Clay**, moist, no odor, no staining
		0.0		6-12" dark brown **silt Loam** with roots and pebbles up to 1/2 in.
2.0		0.0		
		0.0		12-36" brown **silty Clay**, moist, no odor, no staining
3.0		0.0		
		0.0		
4.0		0.0		36-60" No Recovery
5.0		0.0		
6.0		0.0	36 / 36 in.	
		0.0		
7.0		0.0		0-36" brown **silty Clay** over limestone, moist, no odor, no staining
		0.0		
8.0		0.0		
9.0				Refusal at Limestone
10.0				
11.0				
12.0				
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: FROG-SS-113(0.0-2.0) collected at 0750
FROG-SS-113(6.0-8.0) collected at 0752

Boring Log

U.S. Department of Transportation Volpe Center

Project Frog Switch Phase II ESA	**Boring ID** FROG-SB-114	
Location Frog, Switch & Manufacturing Co., Carlisle, PA		
Sponsor U.S. EPA Region 3 Brownfields	**Permit #** N/A	

Logged by L. Cesic **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 19 ft. **Location** 316982.0 N 2128450.2 E (PA StatePlane S., US ft.) **GW Depth During Drilling** 452.1 ft.

Boring Diameter 2 in. **Ground Elevation** - ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 10/20/2025 **Date Completed** 10/20/2025

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.0	30 / 60 in.	0-6" dark brown **silt Loam** with roots, moist, no odor, no staining
		0.0		6-12" brown **silty Clay**, moist, no odor, no staining
2.0		0.0		
		13.1		12-30" black and dark brown very coarse **Sand** with granules, crushed white porous stone from 15-18", moist, no odor/stain
3.0		0.0		
4.0				30-60" No Recovery
5.0				
6.0		0.0	60 / 60 in.	0-12" dark brown **silty Clay**, moist, no odor, no staining
7.0		0.0		
8.0		0.0		12-60" brown **silty Clay**, moist, no odor, no staining
9.0		0.0		
10.0		0.0		
11.0		0.0	48 / 60 in.	0-48" brown **silty Clay**, layer of high moisture content from 30-34", no odor, no staining
12.0		0.0		
13.0		0.0		
14.0		0.0		
15.0		0.0		48-60" No Recovery
16.0		0.0	48 / 48 in.	0-48" brown **silty Clay**, moist, no odor, no staining
17.0		0.0		
18.0		0.0		
19.0		0.0		
20.0				Refusal at Limestone
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: FROG-SS-114(0.0-2.0) collected at 0841
FROG-SS-114(17.0-19.0) collected at 0844

Project Frog Switch Phase II ESA

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-115

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by L. Cesic **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 8.5 ft. **Location** 316552.7 N 2128038.8 E (PA StatePlane S., US ft.) **GW Depth During Drilling** 453.8 ft.

Boring Diameter 2 in. **Ground Elevation** - ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 10/17/2025 **Date Completed** 10/17/2025

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.0	36 / 60 in.	0-4" dark brown **Loam** with roots and grass
2.0		0.0		4-27" black fine to medium **Sand** with pebbles up to 3/4 in., white porous stone from 10-11", moist, no odor, no staining
3.0		0.0		27-36" brown **silty Clay**, moist, no odor, no staining
4.0		0.0		36-60" No Recovery
5.0		0.0		
6.0		0.0	42 / 42 in.	0-42" brown **silty Clay**, moist, no odor, no staining
7.0		0.0		
8.0		0.4		
9.0		0.2		Refusal at Limestone
10.0				
11.0				
12.0				
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: FROG-SS-115(0.0-2.0) collected at 1043
FROG-SS-115(6.5-8.5) collected at 1045

Project Frog Switch Phase II ESA

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-116

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by L. Cesic **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 20.5 ft. **Location** 316658.1 N 2128136.2 E (PA StatePlane S., US ft.) **GW Depth During Drilling** 455.0 ft.

Boring Diameter 2 in. **Ground Elevation** - ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 10/17/2025 **Date Completed** 10/17/2025

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.0	30 / 60 in.	0-4" dark brown **Loam** with grass and roots, moist, no odor, no staining
2.0		0.0		
3.0		0.0		4-30" black fine to medium **Sand** with pebbles up to 3/4 in., white porous stone from 27-30", moist, no odor, no staining
4.0		0.0		
5.0		0.0		30-60" No Recovery
6.0		0.0	54 / 60 in.	0-9" black fine to medium **Sand** with pebbles up to 3/4 in., moist, no odor, no staining
7.0		0.0		
8.0		0.0		0-54" brown **silty Clay**, moist, no odor, no staining
9.0		0.0		
10.0		0.0		54-60" No Recovery
11.0		0.0	60 / 60 in.	0-60" brown **silty Clay**, moist, no odor, no staining
12.0		0.0		
13.0		0.0		
14.0		0.0		
15.0		0.0		
16.0		0.0	60 / 60 in.	0-60" brown **silty Clay**, moist, no odor, no staining
17.0		0.0		
18.0		0.0		
19.0		0.0		
20.0		22.2		
21.0		25.1	6/6in.	0-6" brown **silty Clay**, moist, stained and contains a petroluem-like odor
22.0				Refusal at Limestone
23.0				
24.0				
25.0				

Notes: FROG-SS-116(0.0-2.0) collected at 0942
FROG-SS-116(18.5-20.5) collected at 0944 (FROG-SS-MS/MSD-103 collected here)

Project Frog Switch Phase II ESA

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-117

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by L. Cesic **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 13 ft. **Location** 316739.4 N 2128210.1 E (PA StatePlane S., US ft.) **GW Depth During Drilling** 454.5 ft.

Boring Diameter 2 in. **Ground Elevation** - ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 10/17/2025 **Date Completed** 10/17/2025

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.0	24 / 60 in.	0-4" dark brown **Loam** with grass and roots, moist, no odor, no staining
2.0		0.0		4-24" black fine to medium **Sand** with pebbles up to 3/4 in., white and orange-brown porous stone from 9-11", moist, no odor, no staining
3.0		4.7		
4.0		0.1		24-60" No Recovery
5.0				
6.0		0.8	20 / 60 in.	0-10" black fine to medium **Sand** with pebbles up to 3/4 in., moist, no odor, no staining
7.0		0.0		10-20" gray very fine **Sand** with gray pebbles up to 1/2 in., moist, no odor, no staining
8.0		0.0		
9.0				20-60" No Recovery
10.0				
11.0		0.0	36 / 36 in.	0-28" gray and brown **sandy Loam** with pebbles up to 1/2 in., moist, no odor, no staining
12.0		0.0		
13.0		0.0		28-36" brown **silty Clay**, moist, no odor, no staining
14.0				Refusal at Limestone
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: FROG-SS-117(0.0-2.0) collected at 0814 (FROG-SS-DUP-103 collected here)
FROG-SS-117(11.0-13.0) collected at 0822

Project Frog Switch Phase II ESA

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-118

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by L. Cesic **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 13 ft. **Location** 316625.6 N 2128702.4 E (PA StatePlane S., US ft.) **GW Depth During Drilling** 455.8 ft.

Boring Diameter 2 in. **Ground Elevation** - ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 10/16/2025 **Date Completed** 10/16/2025

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.0	24 / 60 in.	0-4" Concrete
2.0		0.0		4-20" dark brown and black **sandy Clay Loam**, moist, no odor, no staining
3.0		0.0		20-24" brown **silty Clay**, moist, no odor, no staining
4.0		0.0		24-60" No Recovery
5.0				
6.0		0.0	60 / 60 in.	0-60" brown **silty Clay**, moist, no odor, no staining
7.0		0.0		
8.0		0.0		
9.0		0.0		
10.0		0.0		
11.0		0.0	30 / 36 in.	0-18" brown **silty Clay**, moist, no odor, no staining
12.0		0.0		18-30" gray and white **Crushed Stone** (potentially concrete or limestome)
13.0		0.0		30-36" No Recovery
14.0				Refusal at Concrete or Limestone
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: FROG-SS-118(0.0-2.0) collected at 1420
FROG-SS-118(10.0-12.0) collected at 1423 (FROG-SS-DUP-102 collected here)

Project Frog Switch Phase II ESA

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-119

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by L. Cesic **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 1.8 ft. **Location** 316707.9 N 2128742.0 E (PA StatePlane S., US ft.) **GW Depth During Drilling** 455.6 ft.

Boring Diameter 2 in. **Ground Elevation** - ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 10/16/2025 **Date Completed** 10/16/2025

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.1	22/22 in	0-10" **Concrete**
		1.9		10-13" black fine to medium **Sand**, moist, slight petroleum-like odor, slight staining
2.0		0.0		13-22" **Concrete**
				Refusal at Concrete
3.0				
4.0				
5.0				
6.0				
7.0				
8.0				
9.0				
10.0				
11.0				
12.0				
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: FROG-SS-119(0.0-0.5) collected at soil surface with hand trowel at 1400 on 10/20/2025
FROG-SS-119(0.5-1.0) collected at 1345
FROG-SS-FB-102 collected at 1310

Boring Log

U.S. Department of Transportation Volpe Center

Project Frog Switch Phase II ESA	**Boring ID** FROG-SB-120	
Location Frog, Switch & Manufacturing Co., Carlisle, PA		
Sponsor U.S. EPA Region 3 Brownfields	**Permit #** N/A	

Logged by L. Cesic **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 5 ft. **Location** 316817.3 N 2129160.7 E (PA StatePlane S., US ft.) **GW Depth During Drilling** 458.1 ft.

Boring Diameter 2 in. **Ground Elevation** - ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 10/16/2025 **Date Completed** 10/16/2025

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.0 0.2	42 / 60 in.	0-38" black sandy **Urban Fill** material with gravel and pebbles up to 1 in. and pieces of red brick and glass mixed in, moist, no odor, no staining
2.0		0.0 1.7		
3.0		0.7		
4.0		0.4		38-42" dark gray **silty Clay**, moist, no odor, no staining
5.0				42-60" No Recovery
6.0				Refusal at Limestone
7.0				
8.0				
9.0				
10.0				
11.0				
12.0				
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: FROG-SS-120(0.0-2.0) collected at 0800
FROG-SS-120(2.0-3.5) collected at 0805

Project Frog Switch Phase II ESA

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-121

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by L. Cesic **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 21.5 ft. **Location** 316825.3 N 2129030.8 E (PA StatePlane S., US ft.) **GW Depth During Drilling** 455.6 ft.

Boring Diameter 2 in. **Ground Elevation** - ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 10/16/2025 **Date Completed** 10/16/2025

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.0	30 / 60 in.	0-30" dark brown fine to medium **Sand**, fine roots in top 3", shiny black pebbles up to 1/4 in, moist, no odor, no staining
2.0		0.0		
3.0		0.3		
4.0		0.0		30-60" No Recovery
5.0		0.0		
6.0		0.0	60 / 60 in.	0-2" dark brown fine to medium **Sand** with pebbles up to 1/2 in., moist, no odor, no staining
7.0		0.0		
8.0		0.0		2-60" brown **silty Clay** with a layer of gray sandy Clay from 45-50", moist, no odor, no staining
9.0		0.0		
10.0		0.0		
11.0		0.0	60 / 60 in.	0-60" brown **silty Clay** with dark brown sand and pebbles mixed into the top 4", moist, no odor, no staining
12.0		0.0		
13.0		0.0		
14.0		0.0		
15.0		0.0		
16.0		0.0	60 / 60 in.	0-60" brown **silty Clay** with a layer of dark brown sand and shiny black pebbles from 16-22", moist, no odor, no staining
17.0		0.0		
18.0		0.0		
19.0		0.0		
20.0		0.0		
21.0		0.0	18/18	0-18" brown **silty Clay** with a layer of dark brown sand and shiny black pebbles, moist, no odor, no staining
22.0				Refusal at Limestone
23.0				
24.0				
25.0				

Notes: FROG-SS-121(0.0-2.0) collected at 0906
FROG-SS-121(20.0-21.5) collected at 0916 (FROG-SS-MS/MSD-102 collected here)

Project Frog Switch Phase II ESA

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-122

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by L. Cesic **Checked by** J. Klaybor **Page** 1 of 2

Boring Depth 32 ft. **Location** 316751.3 N 2128920.8 E (PA StatePlane S., US ft.) **GW Depth During Drilling** 455.2 ft.

Boring Diameter 2 in. **Ground Elevation** - ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 10/20/2025 **Date Completed** 10/20/2025

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.0	30 / 60 in.	0-3" **Gravel** and loamy Sand material on shop floor surface
		0.0		3-20" **Concrete**
2.0		0.0		20-30" brown **silty Clay** with pebbles up to 1/2 in. and very coarse Sand mixed in, moist, no staining, petroleum-like odor
3.0		0.0		
4.0				30-60" No Recovery
5.0				
6.0		0.0	60 / 60 in.	0-6" dark gray **sandy Clay**, moist, no odor, no staining
7.0		0.0		
8.0		0.0		6-60" brown **silty Clay**, moist, no odor, no staining
9.0		0.0		
10.0		0.0		
11.0		0.0	60 / 60 in.	0-60" brown **silty Clay** with layer of very coarse sand and 1/2 in. pebbles from 12-15", moist, no odor, no staining
12.0		0.0		
13.0		0.0		
14.0		0.0		
15.0		0.0		
16.0		0.0	60 / 60 in.	0-60" brown **silty Clay**, moist, no odor, no staining
17.0		0.0		
18.0		0.0		
19.0		0.0		
20.0		0.0		
21.0		0.0	60 / 60 in.	0-60" brown **silty Clay**, high moisture content beginning at 36" but not saturated, no odor, no staining
22.0		0.0		
23.0		0.0		
24.0		0.0		
25.0		0.0		

Notes:

Project Frog Switch Phase II ESA	**Boring ID**	Boring Log
Location Frog, Switch & Manufacturing Co., Carlisle, PA	FROG-SB-122	U.S. Department of Transportation Volpe Center
Sponsor U.S. EPA Region 3 Brownfields	**Permit #** N/A	

Logged by L. Cesic **Checked by** J. Klaybor **Page** 2 of 2

Boring Depth 32 ft. **Location** 316751.3 N 2128920.8 E (PA StatePlane S., US ft.) **GW Depth During Drilling** 455.2 ft.

Boring Diameter 2 in. **Ground Elevation** - ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 10/20/2025 **Date Completed** 10/20/2025

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
25.0				
26.0		0.0	30/60	0-30" dark brown **Clay**, high moisture content but not saturated, no odor, no staining
27.0		0.0		
28.0		0.0		
29.0		0.0		30-60" No Recovery
30.0		0.0		
31.0		0.0	24/24 in.	0-24' brown **silty Clay**, high moisture content but not saturated, no odor, no staining
32.0		0.0		
33.0				Refusal at Limestone
34.0				
35.0				
36.0				
37.0				
38.0				
39.0				
40.0				
41.0				
42.0				
43.0				
44.0				
45.0				
46.0				
47.0				
48.0				
49.0				
50.0				

Notes: FROG-SS-122(1.5-3.5) collected at 1045
FROG-SS-122(30.0-32.0) collected at 1100 (FROG-SS-MS/MSD-104 collected here)

Project Frog Switch Phase II ESA

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-123

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by L. Cesic **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 19 ft. **Location** 317089.3 N 2128987.3 E (PA StatePlane S., US ft.) **GW Depth During Drilling** 455.4 ft.

Boring Diameter 2 in. **Ground Elevation** - ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 10/20/2025 **Date Completed** 10/20/2025

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.0	48 / 60 in.	0-12" **Concrete**
2.0		0.0		
3.0		0.0		12-48" brown **silty Clay**, moist, no odor, no staining
4.0		0.0		
5.0		0.0		48-60" No Recovery
6.0		0.0	60 / 60 in.	0-60" brown **silty Clay** with concrete (presumed to be fall-in material) from 28-34", moist, no odor, no staining
7.0		0.0		
8.0		0.0		
9.0		0.0		
10.0		0.0		
11.0		0.0	60 / 60 in.	0-60" brown **silty Clay** with concrete (presumed to be fall-in material) from 5-15", moist, no odor, no staining
12.0		0.0		
13.0		0.0		
14.0		0.0		
15.0		0.0		
16.0		0.0	48 / 48 in.	0-48" brown **silty Clay** with concrete (presumed to be fall-in material) from 0-5", moist, no staining, petroleum-like odor at bottom 12" of boring
17.0		0.0		
18.0		1.5		
19.0		3.4		
20.0		0.0		Refusal at Limestone
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: FROG-SS-123(1.0-3.0) collected at 1235
FROG-SS-123(17.0-19.0) collected at 1242 (FROG-SS-DUP-104 collected here)
FROG-SS-FB-104 collected at 1147

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-202

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by E. Paleo **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 9.5 ft. **Location** 316634.5 N 2128746.7 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 456.4 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/23/2026 **Date Completed** 06/23/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.4	23 / 60 in.	0-13" **Concrete**
2.0		0.4		13-21" brown/dark gray **Gravel** mixed with crushed stone and coarse sand
3.0		0.4		21-23" brown **silty Clay**
4.0		0.4		23-60" No Recovery
5.0		0.4		
6.0		0.4	40 / 54 in.	0-40" brown **silty Clay**
7.0		0.4		
8.0		0.4		
9.0		0.4		40-54" No Recovery
10.0				Refusal at 9.5'
11.0				
12.0				
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.4 ppm
FROG-FB-202 collected at 0942
FROG-SS-202(1.0-2.0) collected at 0959
FROG-SS-202(5.0-5.5) collected at 1000
FROG-SS-202(7.5-8.0) collected at 1003
FROG-SS-202(9.0-9.5) collected at 1008

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-203

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by E. Paleo **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 2 ft. **Location** 316622.6 N 2128725.2 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 456.1 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/23/2026 **Date Completed** 06/23/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.4	24/24 in.	0-16" **Concrete**
		0.4		
2.0		0.4		16-24" brown/dark gray **Gravel** mixed with crushed stone and coarse sand
				Refusal at 2'
3.0				
4.0				
5.0				
6.0				
7.0				
8.0				
9.0				
10.0				
11.0				
12.0				
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.4 ppm
FROG-SS-203(1.5-2.0) collected at 1035

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-204

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by E. Paleo **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 4 ft. **Location** 316627.1 N 2128666.7 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 455.2 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/23/2026 **Date Completed** 06/23/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0			24/48 in.	0-24" crushed **Concrete** mixed with clay and debris
2.0				
3.0				24-48" No Recovery
4.0				
5.0				Refusal at 4'
6.0				
7.0				
8.0				
9.0				
10.0				
11.0				
12.0				
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.4 ppm
FROG-SS-204(1.0-2.0) collected at 1115
FROG-SS-204(3.5-4.0) collected at 1118

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-205

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by E. Paleo **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 4 ft. **Location** 316756.1 N 2128716.5 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 456.1 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/23/2026 **Date Completed** 06/23/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.1	36/48 in.	0-15" black medium **Sand** mixed with crushed stone under a thin asphalt surface
		3.6		15-20" fine brown **Sand**
2.0		0.5		20-25" **Gravel** mixed with crushed stone
		0.2		25-36" brown **silty Clay**
3.0		0.5		36-48" No Recovery
4.0				Refusal at 4'
5.0				
6.0				
7.0				
8.0				
9.0				
10.0				
11.0				
12.0				
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.2 ppm
FROG-SS-205(1.0-2.0) collected at 1315 (FROG-SS-DUP-202 collected here)
FROG-SS-205(3.5-4.0) collected at 1318

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-206

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by E. Paleo **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 11 ft. **Location** 316711.1 N 2128795.2 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 456.5 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/23/2026 **Date Completed** 06/23/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.3	38 / 60 in.	0-2" **Concrete**
2.0		0.3		2-18" dark gray gravel/**Fill** mixed with crushed stone and debris
3.0		0.3		18-38" brown **silty Clay**
4.0		0.3		
5.0		0.3		38-60" No Recovery
6.0		0.3	60 / 60 in.	0-60" brown **silty Clay**, 1" pocket of gravel and crushed stone at 49"
7.0		0.3		
8.0		0.3		
9.0		0.3		
10.0		0.3		
11.0		0.3	12/12	0-12" brown **silty Clay**, 1" layer of gravel and crushed stone at 6", 2" light gray clay at bottom
12.0				Refusal at 11'
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.3 ppm
FROG-SS-206(0.5-2.0) collected at 1346
FROG-SS-206(4.5-5.0) collected at 1358
FROG-SS-206(9.5-10.0) collected at 1402
FROG-SS-206(10.5-11.0) collected at 1407

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-207

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by E. Paleo **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 7 ft. **Location** 316663.8 N 2128761.1 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 456.2 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/23/2026 **Date Completed** 06/23/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.4	23 / 60 in.	0-6" **Concrete**
		0.4		6-10" **Fill** consiting of dark gray gravel and coarse sand
2.0		0.4		10-24" brown **silty Clay**
3.0		0.4		
4.0		0.4		24-60" No Recovery
5.0		0.4		
6.0		0.4	24/24 in.	0-24" brown **silty Clay** with 1.5" of light gray clay at the bottom
7.0		0.4		
8.0				Refusal at 7'
9.0				
10.0				
11.0				
12.0				
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.4 ppm
FROG-SS-207(0.5-2.0) collected at 1442
FROG-SS-207(4.5-5.0) collected at 1448
FROG-SS-207(5.5-6.0) collected at 1452
FROG-SS-207(6.5-7.0) collected at 1457

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-208

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by E. Paleo **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 12.5 ft. **Location** 316719.8 N 2128702.8 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 455.5 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/24/2026 **Date Completed** 06/24/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.1	48 / 60 in.	0-1" **Loam**, top soil, and plant material
		0.1		1-12" dark gray **Gravel** mixed with crushed stone
2.0		0.1		
		0.1		
3.0		0.1		12-48" brown **silty Clay**
		0.1		
4.0		0.1		
5.0		0.1		48-60" No Recovery
6.0		0.2	60 / 60 in.	0-60" brown **silty Clay**
		0.2		
7.0		0.2		
		0.2		
8.0		0.2		
		0.2		
9.0		0.2		
10.0		0.2		
11.0		0.2	30 / 30 in.	0-30" brown **silty Clay** with some gravel/crushed stone fall-in
		0.2		
12.0		0.2		
13.0				Refusal at 12.5'
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.1 ppm
FROG-SS-208(0.0-2.0) collected at 0826
FROG-SS-208(4.5-5.0) collected at 0829
FROG-SS-208(9.5-10.0) collected at 0830
FROG-SS-208(12.0-12.5) collected at 0831

Project Frog Switch Supplemental Phase II	**Boring ID**	Boring Log
Location Frog, Switch & Manufacturing Co., Carlisle, PA	FROG-SB-209	U.S. Department of Transportation Volpe Center
Sponsor U.S. EPA Region 3 Brownfields	**Permit #** N/A	

Logged by M. Foster **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 15 ft. **Location** 316476.3 N 2128996.3 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 456.7 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/22/2026 **Date Completed** 06/22/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.3	28 / 60 in.	0-5" **Asphalt**
		0.3		5-14" **Gravel**
2.0		0.3		14-28" brown **silty Clay**
		0.3		
3.0		0.2		
4.0				28-60" No Recovery
5.0				
6.0		0.3	60 / 60 in.	0-60" brown **silty Clay**
		0.3		
7.0		0.3		
		0.3		
8.0		0.3		
		0.3		
9.0		0.3		
10.0		0.3		
11.0		0.3	60 / 60 in.	0-54" brown **silty Clay**
		2.9		
12.0		2.0		
		5.7		
13.0		4.1		
		1.7		
14.0		3.8		
15.0				54-60" brown **Clay**
16.0				End of Boring
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.2 ppm
FROG-FB-201 collected at 1212
FROG-SS-209(0.0-2.0) collected at 1224
FROG-SS-209(4.5-5.0) collected at 1232
FROG-SS-209(9.5-10.0) collected at 1236
FROG-SS-209(14.5-15.0) collected at 1238

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-210

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by M. Foster **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 15 ft. **Location** 316447.9 N 2129043.2 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 456.6 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/22/2026 **Date Completed** 06/22/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.3	55 / 60 in.	0-5" **Asphalt**
		0.3		5-10" **Gravel** with crushed stone
2.0		0.3		
		0.3		
3.0		0.3		10-55" brown **silty Clay**
		0.3		
4.0		0.3		
5.0		0.3		55-60" No Recovery
6.0		0.3	60 / 60 in.	
		0.3		
7.0		0.3		
		1.4		
8.0		1.5		0-60" brown **silty Clay**
		1.4		
9.0		0.3		
10.0		0.3		
11.0		0.3	60 / 60 in.	
		7.0		
12.0		5.2		
		4.4		0-48" brown **silty Clay**
13.0		4.5		
		10.6		
14.0		5.4		
15.0		4.1		48-60" brown **Clay**
16.0				End of Boring
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.3 ppm
FROG-SS-210(0.0-2.0) collected at 1258
FROG-SS-210(4.5-5.0) collected at 1302
FROG-SS-210(9.5-10.0) collected at 1307
FROG-SS-210(14.5-15.0) collected at 1310

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-211

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by M. Foster **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 10.5 ft. **Location** 316422.1 N 2129003.6 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 457.9 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/22/2026 **Date Completed** 06/22/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.5	39 / 60 in.	0-12" brown medium **Sand** with pebbles up to 1" and some organic material
2.0		0.5		
3.0		0.5		12-39" brown **silty Clay**
4.0		0.5		
5.0		0.5		39-60" No Recovery
6.0		0.5	60 / 60 in.	0-60" brown **silty Clay** with 3" layer of white silt at 56"
7.0		0.5		
8.0		0.5		
9.0		0.5		
10.0		0.5		
11.0		0.5	6/6in.	0-6" brown **silty Clay** with streaks of white silt
12.0				Refusal at 10.5'
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.5 ppm
FROG-SS-211(0.0-2.0) collected at 1348
FROG-SS-211(4.5-5.0) collected at 1352
FROG-SS-211(7.5-8.0) collected at 1356
FROG-SS-211(10.0-10.5) collected at 1401

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-212

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by M. Foster **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 14 ft. **Location** 316430.4 N 2128961.8 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 457.3 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/22/2026 **Date Completed** 06/22/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.4	48 / 60 in.	0-2" **Loam,** top soil, and plant material
		0.6		2-17" brown **silty Clay**
2.0		111		17-18" black **sandy Clay**, organic odor
		108		
3.0		153		18-48" brown **silty Clay**, petroleum-like odor
		78.7		
4.0		116		
5.0		56.3		48-60" No Recovery
6.0		36.2	60 / 60 in.	0-60" brown **silty Clay**, saturated with unknown free product with petroleum-like odor from 0-30"
		104		
7.0		36.8		
		44.0		
8.0		29.2		
		32.6		
9.0		46.8		
10.0		23.8		
11.0		44.7	48 / 48 in.	0-48" brown **silty Clay** with product fall-in
		58.7		
12.0		37.8		
		42.6		
13.0		38.2		
		17.8		
14.0		5.6		
15.0				Refusal at 14'
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.4 ppm
FROG-SS-212(0.0-2.0) collected at 1437
FROG-SS-212(4.5-5.0) collected at 1440
FROG-SS-212(9.5-10.0) collected at 1441
FROG-SS-212(13.5-14.0) collected at 1444
FROG-SS-212(5.0-7.0) collected at 1446 (sample collected due to free product)

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-213

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by M. Foster **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 15 ft. **Location** 316490.7 N 2129163.2 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 457.7 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/22/2026 **Date Completed** 06/22/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.1	45 / 60 in.	0-17" **Gravel** mixed with crushed stone
2.0		0.2		
3.0		0.2		17-45" brown **silty Clay**
4.0		0.1		
5.0		0.1		45-60" No Recovery
6.0		0.2	60 / 60 in.	0-60" brown **silty Clay**
7.0		0.2		
8.0		0.2		
9.0		0.2		
10.0		0.2		
11.0		0.2	60 / 60 in.	0-60" brown **silty Clay** with 2" of gravel fall-in
12.0		0.2		
13.0		0.2		
14.0		0.2		
15.0		0.2		
16.0				End of Boring
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.2 ppm
FROG-SS-213(0.0-2.0) collected at 0901
FROG-SS-213(4.5-5.0) collected at 0907 (FROG-SS-MS/MSD-201 collected here)
FROG-SS-213(9.5-10.0) collected at 0916
FROG-SS-213(14.5-15.0) collected at 0918

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-214

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by M. Foster **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 9.5 ft. **Location** 316437.7 N 2129185.9 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 457.9 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/22/2026 **Date Completed** 06/22/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.3	27 / 60 in.	0-9" **Gravel** mixed with crushed stone
2.0		0.3		9-18" brown **silty Clay**
3.0		0.3		18-27" dark brown **Fill**, pebbles up to 2", black wood, and brown clay with a petroleum-like odor
4.0		0.3		
5.0		0.3		27-60" No Recovery
6.0		0.3	54 / 54 in.	0-54" brown **silty Clay** with gravel fall-in
7.0		0.3		
8.0		0.6		
9.0		0.6		
10.0		0.8		Refusal at 9.5'
11.0		0.3		
12.0				
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.3 ppm
FROG-SS-214(0.0-2.0) collected at 0938
FROG-SS-214(4.0-4.5) collected at 0942
FROG-SS-214(5.0-5.5) collected at 0946
FROG-SS-214(9.0-9.5) collected at 0950

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-215

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by M. Foster **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 15 ft. **Location** 316420.1 N 2129147.9 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 458.3 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/22/2026 **Date Completed** 06/22/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.3	42 / 60 in.	0-14" **Gravel** mixed with crushed stone
2.0		0.3		
3.0		0.3		14-42" brown **silty Clay**
4.0		0.3		
5.0		0.3		42-60" No Recovery
6.0		0.3	60 / 60 in.	0-60" brown **silty Clay** with gravel fall-in
7.0		0.3		
8.0		0.3		
9.0		0.3		
10.0		0.3		
11.0		0.3	60 / 60 in.	0-60" brown **silty Clay**
12.0		0.3		
13.0		0.3		
14.0		0.3		
15.0		0.3		
16.0				End of Boring
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.3 ppm
FROG-SS-215(0.0-2.0) collected at 1011
FROG-SS-215(4.5-5.0) collected at 1019 (FROG-SS-DUP-201 collected here)
FROG-SS-215(9.5-10.0) collected at 1021
FROG-SS-215(14.5-15.0) collected at 1025

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-216

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by M. Foster **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 8 ft. **Location** 316443.2 N 2129111.7 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 458.6 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/22/2026 **Date Completed** 06/22/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.4	38 / 60 in.	0-3" black **Sand** and organic material
		0.4		3-12" **Gravel** mixed with crushed stone
2.0		0.4		12-24" dark gray **Silt**
		0.4		
3.0		0.4		24-38" **Fill** consiting of black and gray medium sand with pebbles up to 1/2"
		0.4		
4.0		0.4		
		0.4		38-60" No Recovery
5.0				
		0.4	28 / 36 in.	0-6" dark brown **Silt**
6.0		0.4		6-12" brown very fine to medium **Sand**, pebbles up to 1/2"
		2.6		12-26" black medium to coarse **Sand** with red brick, with tan medium to coarse sand starting at 21"
7.0		4.2		26-28" brown **silty Clay**
8.0				28-36" No Recovery
9.0				Refusal at 8'
10.0				
11.0				
12.0				
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.4 ppm
FROG-SS-216(0.0-2.0) collected at 1050
FROG-SS-216(4.5-5.0) collected at 1052
FROG-SS-216(6.0-7.0) collected at 1055
FROG-SS-216(7.5-8.0) collected at 1057

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-217

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by M. Foster **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 12 ft. **Location** 316879.5 N 2129042.6 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 455.3 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/26/2026 **Date Completed** 06/26/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.2	34 / 60 in.	0-34" **Fill** consisting of black and brown medium to fine sand with some brick, rubber pieces, and pebbles up to 1"
2.0		0.2		
3.0		0.2		
4.0		0.2		
5.0		0.2		34-60" No Recovery
6.0		0.2	60 / 60 in.	0-4" **Fill** consisting of black and brown medium sand
7.0		0.2		
8.0		0.2		4-60" brown **silty Clay**
9.0		0.2		
10.0		0.2		
11.0			24/24 in.	0-24" brown **silty Clay** with some fall-in, high moisture content in bottom 3" where some bedrock is mixed in
12.0				
13.0				Refusal at 12'
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.2 ppm
FROG-SS-217(0.0-2.0) collected at 0828
FROG-SS-217(4.0-5.0) collected at 0833
FROG-SS-217(9.0-10.0) collected at 0839 (FROG-SS-MS/MSD-204 collected here)
FROG-SS-217(11.0-12.0) collected at 0844

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-218

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by M. Foster **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 12 ft. **Location** 316810.3 N 2129074.0 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 456.9 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/25/2026 **Date Completed** 06/25/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.2	28 / 60 in.	0-28" **Fill** consisting of black and gray medium to fine sand with crushed stone and pebbles up to 1"
2.0		0.2		
3.0		62.8		
4.0		3.2		
5.0		1.7		28-60" No Recovery
6.0		1.2		
7.0		0.3	60 / 60 in.	0-6" **Fill** consisting of black and gray medium to fine sand with crushed stone and pebbles up to 1"
8.0		0.3		
9.0		0.3		
10.0		0.3		6-60" brown **silty Clay**
11.0		0.3		
12.0		0.3		
13.0		0.3	20/24 in.	0-20" brown **silty Clay** with some fall-in, high moisture content in bottom 3" where some limestone is mixed in
14.0		0.2		20-24" No Recovery
15.0				Refusal at 12'
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.2-0.4 ppm
FROG-SS-218(0.0-2.0) collected at 1340
FROG-SS-218(4.0-5.0) collected at 1347
FROG-SS-218(9.0-10.0) collected at 1351
FROG-SS-218(11.0-12.0) collected at 1355

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-219

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by M. Foster **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 6.5 ft. **Location** 316772.7 N 2129024.6 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 455.1 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/26/2026 **Date Completed** 06/26/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.3	24 / 60 in.	0-24" **Fill** consisting of black and brown medium sand with brick pieces and pebbles up to 1"
2.0		4.2		
3.0		2.0		
4.0		0.4		24-60" No Recovery
5.0				
6.0		0.2	18/18 in	0-4" **Fill** consisting of brown medium sand with pebbles up to 1"
7.0		0.2		4-18" brown **silty Clay** with crushed limestone at bottom
8.0				Refusal at 6.5'
9.0				
10.0				
11.0				
12.0				
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.3 ppm
FROG-FB-204 collected at 0900
FROG-SS-219(0.0-2.0) collected at 0914 (FROG-SS-DUP-204 collected here)
FROG-SS-219(4.0-5.0) collected at 0920
FROG-SS-219(5.5-6.5) collected at 0926

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-220

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by M. Foster **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 6 ft. **Location** 316868.4 N 2129166.8 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 458.0 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/25/2026 **Date Completed** 06/25/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.1 1.3	40 / 60 in.	0-3" **Gravel**
2.0		0.3		3-35" **Fill** consisting of black and gray medium to fine sand with some brick and pebbles up to 3/4"
3.0		4.0 0.6		
4.0		0.2 0.2		35-40" black **Silt** with traces of green sand mixed in
5.0				40-60" No Recovery
6.0		0.7	2/12 i	0-3" black **Silt** with traces green sand mixed in 3-6" gray medium **Sand** 6-12" brown **silty Clay**
7.0				Refusal at 6'
8.0				
9.0				
10.0				
11.0				
12.0				
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.1 ppm
FROG-SS-220(0.0-2.0) collected at 1007
FROG-SS-220(4.0-5.0) collected at 1010 (FROG-SS-DUP-203 colelcted here)
FROG-SS-220(5.5-6.0) collected at 1015
FROG-FB-203 collected at 1020

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-221

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by M. Foster **Checked by** J.Klaybor **Page** 1 of 1

Boring Depth 15 ft. **Location** 316814.2 N 2129210.7 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 459.1 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/25/2026 **Date Completed** 06/25/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.1	36 / 60 in.	0-9" **Gravel**
2.0		0.5 0.2 0.3		9-31" **Fill** consisting of black, gray, and tan medium to fine sand, fine shiny green sand and pebbles up to 1/2"
3.0		0.9		31-34" brown **silty Clay**
4.0		0.5		34-36" black very fine **Sand**
5.0				36-60" No Recovery
6.0		0.1	55 / 60 in.	0-4" brown **silty Clay**
7.0		0.1 0.1		4-10" gray medium **Sand** with gravel mixed in, potential fall-in
8.0		0.1 0.1		10-55" brown **silty Clay**
9.0		0.1 0.1		
10.0		0.1		55-60" No Recovery
11.0		0.1 0.1	60 / 60 in.	0-60" brown **silty Clay**
12.0		0.1 0.1		
13.0		0.1 0.1		
14.0		0.1 0.1		
15.0		0.1		
16.0				End of Boring
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.1 ppm
FROG-SS-221(0.0-2.0) collected at 1048
FROG-SS-221(4.0-5.0) collected at 1050 (FROG-SS-MS/MSD-203 collected here)
FROG-SS-221(9.0-10.0) collected at 1100
FROG-SS-221(14.0-15.0) collected at 1105

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-222

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by E. Paleo **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 11.5 ft. **Location** 316785.8 N 2129153.7 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 458.2 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/25/2026 **Date Completed** 06/25/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.2	42 / 60 in.	0-3" **Gravel**
2.0		1.4		
3.0		0.9		3-35" **Fill** consisting of black and gray medium to fine sand with some brick, a bolt, and pebbles up to 1"
4.0		1.4		
5.0		2.0		35-38" black **Silt**
		0.5		38-42" brown **silty Clay**
		0.3		42-60" No Recovery
6.0		0.2	54 / 60 in.	
7.0		0.7		
8.0		0.2		0-54" brown **silty Clay**
9.0		0.2		
10.0		0.2		
11.0		0.2		54-60" No Recovery
12.0		0.2	18/18 in	0-18" brown **silty Clay**
13.0		0.2		
14.0				Refustal at 11.5'
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.2-0.3 ppm
FROG-SS-222(0.0-2.0) collected at 1128 (fill material)
FROG-SS-222(4.0-4.5) collected at 1134 (fill material)
FROG-SS-222(9.0-10.0) collected at 1138 (native material)
FROG-SS-222(10.5-11.5) collected at 1141 (native material)

Project Frog Switch Supplemental Phase II	**Boring ID**	Boring Log
Location Frog, Switch & Manufacturing Co., Carlisle, PA	FROG-SB-223	U.S. Department of Transportation Volpe Center
Sponsor U.S. EPA Region 3 Brownfields	**Permit #** N/A	

Logged by E. Paleo **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 11.5 ft. **Location** 316822.9 N 2129107.5 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 458.0 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/25/2026 **Date Completed** 06/25/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		8.1	36 / 60 in.	0-14" **Gravel**
2.0		0.5		
3.0		0.4		14-36" **Fill** consisting of black, brown, and gray medium to fine sand with brick, crushed stone, and pebbles up to 1"
4.0		0.4		
5.0		3.5		36-60" No Recovery
6.0		0.5	42 / 60 in.	0-16" **Fill** consisting of black, brown, and gray medium to fine sand with some brick and crushed stone
7.0		2.7		
8.0		0.3		16-42" brown **silty Clay**
9.0		0.3		
10.0		0.3		42-60" No Recovery
11.0		0.3		
12.0		0.3		
		0.3		
		0.2	18/18 in	0-18" brown **silty Clay**
		0.2		
		0.1		
13.0				Refustal at 11.5'
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.3 ppm
FROG-SS-223(0.0-2.0) collected at 1258
FROG-SS-223(4.0-5.0) collected at 1301
FROG-SS-223(9.0-10.0) collected at 1308
FROG-SS-223(10.5-11.5) collected at 1311

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-224

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by M. Foster **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 15 ft. **Location** 316751.7 N 2128916.5 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 455.3 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/26/2026 **Date Completed** 06/26/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.2	34 / 60 in.	0-5" **Concrete**
2.0		0.2		
3.0		0.2		5-34" brown **silty Clay** with layer of black crushed rock from 24-26"
4.0		0.2		
5.0		0.2		34-60" No Recovery
6.0		0.3	24 / 60 in.	0-24" brown **silty Clay** with layer of crushed stone from 5-6", likely fall-in
7.0		0.2		
8.0		0.2		
9.0		0.2		24-60" No Recovery
10.0		0.2		
11.0		0.3	46 / 60 in.	
12.0		0.3		0-46" brown **silty Clay** with layer of crushed stone from 7-8", likely fall-in
13.0		0.3		
14.0		0.3		
15.0		0.3		46-60" No Recovery
16.0				End of Boring
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.2-0.3 ppm
FROG-SS-224(0.5-2.0) collected at 1004
FROG-SS-224(4.5-5.0) collected at 1007
FROG-SS-224(9.5-10.0) collected at 1011
FROG-SS-224(14.5-15.0) collected at 1014

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-225

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by M. Foster **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 15 ft. **Location** 317093.3 N 2128982.2 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 455.3 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/26/2026 **Date Completed** 06/26/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.3	52 / 60 in.	0-4" **Concrete**
2.0		0.3		
3.0		0.3		4-52" brown **silty Clay**
4.0		0.3		
5.0		0.3		52-60" No Recovery
6.0		0.3	60 / 60 in.	0-60" brown **silty Clay** with some concrete, likely fall-in
7.0		0.3		
8.0		0.3		
9.0		0.3		
10.0		0.3		
11.0		0.3	60 / 60 in.	0-60" brown **silty Clay** with some concrete, likely fall-in
12.0		0.3		
13.0		0.3		
14.0		0.3		
15.0		0.3		
16.0				End of Boring
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.3 ppm
FROG-SS-225(0.5-2.0) collected at 1048
FROG-SS-225(4.5-5.0) collected at 1052
FROG-SS-225(9.5-10.0) collected at 1056
FROG-SS-225(14.5-15.0) collected at 1100

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-301

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by E. Paleo **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 11 ft. **Location** 317996.3 N 2129999.0 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 459.8 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/24/2026 **Date Completed** 06/24/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.1	50 / 60 in.	0-5" **Loam,** top soil, and plant material
2.0		0.1		
3.0		0.1		5-50" brown **silty Clay**
4.0		0.1		
5.0		0.1		50-60" No Recovery
6.0		0.1	60 / 60 in.	0-60" brown **silty Clay**
7.0		0.1		
8.0		0.1		
9.0		0.1		
10.0		0.1		
11.0		0.1	2/12 i	0-12" brown **silty Clay**
12.0				Refusal at 11'
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.1 ppm
FROG-SS-301(0.0-2.0) collected at 0929
FROG-SS-301(9.0-9.5) collected at 0930 (FROG-SS-MS/MSD-301 collected here)

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-302

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by E. Paleo **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 7.5 ft. **Location** 317910.9 N 2130008.7 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 457.7 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/24/2026 **Date Completed** 06/24/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.2	52 / 60 in.	0-2" **Loam,** top soil, plant material, and crushed stone
2.0		0.2		
3.0		0.2		2-52" brown **silty Clay**
4.0		0.2		
5.0		0.2		52-60" No Recovery
6.0		0.2	30 / 30 in.	0-30" brown **silty Clay**
7.0		0.2		
8.0				Refusal at 7.5'
9.0				
10.0				
11.0				
12.0				
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.2 ppm
FROG-FB-301 collected at 0943
FROG-SS-302(0.0-2.0) collected at 0951 (FROG-SS-DUP-301 collected here)
FROG-SS-302(6.5-7.0) collected at 0955

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-303

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by E. Paleo **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 6 ft. **Location** 317911.0 N 2130039.8 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 458.0 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/24/2026 **Date Completed** 06/24/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.3	50 / 60 in.	0-2" **Loam,** top soil, and plant material
2.0		0.3		
3.0		0.3		2-50" brown **silty Clay**
4.0		0.3		
5.0		0.3		50-60" No Recovery
6.0		0.3	2/12 i	0-12" brown **silty Clay** with 2" of limestone bedrock at the bottom
7.0				Refusal at 6'
8.0				
9.0				
10.0				
11.0				
12.0				
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.3 ppm
FROG-SS-303(0.0-2.0) collected at 1027
FROG-SS-303(4.5-5.0) collected at 1033

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-304

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by E. Paleo **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 15 ft. **Location** 317756.1 N 2130001.9 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 453.6 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/24/2026 **Date Completed** 06/24/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.0	55 / 60 in.	0-55" brown **silty Clay**
2.0		0.0		
3.0		0.0		
4.0		0.0		
5.0		0.0		55-60" No Recovery
6.0		0.0	60 / 60 in.	0-60" brown **silty Clay**
7.0		0.0		
8.0		0.0		
9.0		0.0		
10.0		0.0		
11.0		0.1	60 / 60 in.	0-60" brown **silty Clay**
12.0		0.1		
13.0		0.1		
14.0		0.1		
15.0		0.1		
16.0				End of Boring
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.0 ppm
FROG-SS-304(0.0-2.0) collected at 1242
FROG-SS-304(14.5-15.0) collected at 1247

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-305

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by E. Paleo **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 7.5 ft. **Location** 317741.3 N 2130040.5 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 456.1 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/24/2026 **Date Completed** 06/24/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.2	56 / 60 in.	0-2" **Loam**
2.0		0.2		
3.0		0.2		2-56" brown **silty Clay**
4.0		0.2		
5.0		0.2		56-60" No Recovery
6.0		0.2	30 / 30 in.	
7.0		0.2		0-30" brown **silty Clay**
8.0		0.2		Refusal at 7.5'
9.0				
10.0				
11.0				
12.0				
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.2 ppm
FROG-SS-305(0.0-2.0) collected at 1307
FROG-SS-305(7.0-7.5) collected at 1310

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-306

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by E. Paleo **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 9.5 ft. **Location** 317710.0 N 2129997.1 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 452.9 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/24/2026 **Date Completed** 06/24/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.2	60 / 60 in.	0-2" **Loam** and top soil
2.0		0.2		
3.0		0.2		2-60" brown **silty Clay**
4.0		0.2		
5.0		0.2		
6.0		0.2	54 / 54 in.	
7.0		0.2		0-54" brown **silty Clay**
8.0		0.2		
9.0		0.2		
10.0				Refusal at 9.5'
11.0				
12.0				
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.2 ppm
FROG-SS-306(0.0-2.0) collected at 1329
FROG-SS-306(3.0-3.5) collected at 1331

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-307

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by E. Paleo **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 10.5 ft. **Location** 317690.5 N 2129972.4 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 453.9 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/24/2026 **Date Completed** 06/24/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.2	60 / 60 in.	0-2" **Loam**, top soil, and pebbles up to 1"
2.0		0.2		
3.0		0.2		2-60" brown **silty Clay** with pebbles up to 1"
4.0		0.2		
5.0		0.2		
6.0		0.2	60 / 60 in.	
7.0		0.2		
8.0		0.2		0-60" brown **silty Clay** with pebbles up to 1"
9.0		0.2		
10.0		0.2		
11.0		0.2	6/6 in	0-6" brown **silty Clay**
12.0				Refusal at 10.5'
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.2 ppm
FROG-SS-307(0.0-2.0) collected at 1400
FROG-SS-307(8.0-8.5) collected at 1404

Project Frog Switch Supplemental Phase II	**Boring ID**	Boring Log
Location Frog, Switch & Manufacturing Co., Carlisle, PA	FROG-SB-308	U.S. Department of Transportation Volpe Center
Sponsor U.S. EPA Region 3 Brownfields	**Permit #** N/A	

Logged by E. Paleo **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 15 ft. **Location** 317648.1 N 2129975.1 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 455.4 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/24/2026 **Date Completed** 06/24/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.2	60 / 60 in.	0-2" **Loam** and top soil
2.0		0.2		
3.0		0.2		2-60" brown **silty Clay**
4.0		0.2		
5.0		0.2		
6.0		0.3	60 / 60 in.	0-60" brown **silty Clay**
7.0		0.3		
8.0		0.3		
9.0		0.3		
10.0		0.3		
11.0		0.3	54 / 60 in.	0-54" brown **silty Clay**
12.0		0.3		
13.0		0.3		
14.0		0.3		
15.0		0.3		54-60" No Recovery
16.0				End of Boring
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.3 ppm
FROG-SS-308(0.0-2.0) collected at 1442
FROG-SS-308(6.5-7.0) collected at 1443

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-309

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by E. Paleo **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 8 ft. **Location** 317614.2 N 2129973.9 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 454.9 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/24/2026 **Date Completed** 06/24/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.3	60 / 60 in.	0-2" **Loam** and top soil
2.0		0.3		
3.0		0.3		2-60" brown **silty Clay**
4.0		0.3		
5.0		0.3		
6.0		0.3	36 / 36 in.	
7.0		0.3		0-36" brown **silty Clay** with 1" of limestone at the bottom
8.0		0.3		
9.0				Refusal at 8'
10.0				
11.0				
12.0				
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.2 ppm
FROG-SS-309(0.0-2.0) collected at 1500
FROG-SS-309(4.0-4.5) collected at 1503

Project Frog Switch Supplemental Phase II

Location Frog, Switch & Manufacturing Co., Carlisle, PA

Sponsor U.S. EPA Region 3 Brownfields

Boring ID FROG-SB-310

Permit # N/A

Boring Log

U.S. Department of Transportation Volpe Center

Logged by E. Paleo **Checked by** J. Klaybor **Page** 1 of 1

Boring Depth 9 ft. **Location** 317588.7 N 2129953.0 E (PA StatePlane S., US ft.) **GW Depth During Drilling** - ft.

Boring Diameter 2 in. **Ground Elevation** 454.5 ft. (NAVD 88)

Driller Name/Co. Odyssey Environmental Services **Drilling Method** Direct Push

Drilling Equipment Geoprobe 7822DT **Date Started** 06/24/2026 **Date Completed** 06/24/2026

Depth (ft.)	Lithology	PID (ppm)	Recovery	Material Description
0.0				
1.0		0.3	60 / 60 in.	0-2" **Loam**, top soil, and brick pieces
2.0		0.3		
3.0		0.3		2-60" brown **silty Clay** with small pebbles
4.0		0.3		
5.0		0.3		
6.0		0.3	48 / 48 in.	0-48" brown **silty Clay**
7.0		0.3		
8.0		0.3		
9.0		0.3		
10.0				Refusal at 9'
11.0				
12.0				
13.0				
14.0				
15.0				
16.0				
17.0				
18.0				
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				

Notes: PID Background: 0.3 ppm
FROG-SS-310(0.0-2.0) collected at 1520
FROG-SS-310(4.5-5.0) collected at 1521

Appendix C

Data Quality Assessment and Data Usability Evaluation

Data Quality Assessment and Data Usability Evaluation

Frog, Switch & Manufacturing Company, Carlise, PA
Supplemental Phase II Environmental Site Assessment

Introduction

In support of the U.S. Environmental Protection Agency (EPA) Region 3 Targeted Brownfields Assessment Program, the U.S. Department of Transportation John A. Volpe National Transportation Systems Center (Volpe) conducted soil sampling in June 2026 at the Frog, Switch & Manufacturing Company site in Carlise, PA as part of a Supplemental Phase II Environmental Site Assessment (ESA). This memorandum summarizes the findings of the data quality assessment and data usability evaluation that Volpe has performed on the data collected during the investigation. The investigation was completed in accordance with the *Field Sampling Plan, Frog, Switch & Manufacturing Company, Carlisle, Pennsylvania, Supplemental Phase II – Environmental Site Assessment* (FSP), prepared by Volpe and approved by EPA in March 2026 and *Brownfields Generic Quality Assurance Project Plan* (QAPP).

Field Collection

Volpe reviewed field notes, field logs, and chains of custody to assess field sample collection and handling procedures and to identify any deviations from the FSP.

The following deviations from the FSP were identified:

- An additional soil sample, FROG-SS-212(5.0-7.0), was collected for the analysis of PAHs and total petroleum hydrocarbon (TPH) gasoline range organics (GRO) and diesel range organics (DRO) by EPA Method 8015D. This sample and analysis was not included in the FSP but was performed due to the gross contamination that was discovered at this location.
- The sample collection date was incompletely filled out on the chain of custody page 2 of 2 from June 26, 2026.

Laboratory Handling

Samples were submitted to Pace Analytical Services in Westborough, MA for all analyses described in the FSP. The laboratory is certified by Pennsylvania for the analyses performed. All results were included in a level II data package.

All samples are reported by the laboratory to have been received in acceptable condition and at an acceptable temperature. Custody seals were not utilized on sample coolers since samples were picked up by a lab courier. All samples were analyzed within their method holding times.

Detection Limits

All sample results were compared to relevant Pennsylvania statewide health standard medium-specific concentrations (MSCs). For analytes that were not detected in a sample, their laboratory reporting limit (RL) was compared to the MSCs to confirm that the non-detect result is below the MSC. Only one analyte in one sample had an RL exceeding an MSC. Dibenzo(a,h)anthracene was non-detect in sample FROG-SS-212(5.0-7.0) but had an RL exceeding the Direct Contact Residential MSC due to dilution required by the laboratory.

In accordance with procedures specified in the QAPP, Volpe requested that laboratory analytical results be reported down to the method detection limit (MDL), which is lower than the RL and is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. Analytes detected between the MDL and the RL were J-qualified as estimated values. The MDL for dibenzo(a,h)anthracene in sample FROG-SS-212(5.0-7.0) was below the MSC.

RLs and MDLs have been determined to be acceptable to meet the data quality objectives of this investigation.

Blank Samples

Trip Blanks

Trip blank samples are used to identify VOC contamination of aqueous samples during sample transportation. No aqueous field samples were collected; therefore, no trip blanks were collected.

Equipment Rinsate Blanks

Equipment rinsate blank samples are used to identify potential contamination from equipment decontamination procedures. Disposable sampling equipment was used to collect soil samples, therefore, no equipment rinsate blanks were collected.

Field Blank Samples

Field blank samples are used to identify potential contamination from ambient conditions during sampling, transport, and laboratory handling procedures. One field blank sample was collected on each day of sampling for a total of five samples collected at sampling locations anticipated to have the highest potential for ambient contamination based on observed field conditions such as odors, staining, or dust. Field blank samples were collected by pouring laboratory-provided, analyte-free water into sample containers in the same location and conditions at which the field samples are collected. The acceptance criteria for a field blank sample is that no analytes are detected above the laboratory reporting limit.

No analytes were detected above the laboratory reporting limit in any field blank sample. The field blank sample results indicate that ambient sampling, transport, and laboratory conditions did not impact the quality or usability of project data.

Method Blank Samples

Method blank samples were prepared and analyzed by the laboratory to determine the presence of any contamination associated with handling samples in the laboratory. The acceptance criteria for a method blank sample is that no analytes are detected above the laboratory reporting limit.

No analytes were detected above the laboratory reporting limit in any method blank sample, which indicates that potential contamination associated with laboratory handling and analysis did not impact the quality or usability of project data.

Field Duplicate Samples

Field duplicate sample results were reviewed in comparison to the results from their associated field sample to evaluate field precision and overall project precision. Per the FSP, one field duplicate sample is collected for every twenty collected field samples, or one per day, whichever is more frequent. Therefore, one field duplicate soil sample was collected on each day of sampling for a total of five field duplicates. Field duplicate samples were sent to the laboratory "blind" such that the sample information submitted to the laboratory is not indicative of the associated field samples. Relative percent difference (RPD) between each field duplicate sample and its associated field sample was calculated. As stated in the Generic QAPP, the acceptance criteria for field duplicate samples is that the RPD is less than 50% for solid samples for all analytes detected at least five times greater than the reporting limit.

The PAHs fluoranthene, pyrene, chrysene, and benzo(b)fluoranthene had RPDs between 93 and 101% in one field duplicate sample pair, which exceeds the acceptance criteria of 50%. Fluoranthene, pyrene, and chrysene are not contaminants of concern for the Site and all concentrations were well below their MSCs by multiple orders of magnitude. Benzo(b)fluoranthene is a contaminant of concern at the Site and some detections were within one order of magnitude of an MSC. The impact of poor precision for this contaminant should be taken into consideration in determining whether or not a concentration should be considered an exceedance of the MSC.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Samples

MS/MSD samples are a pair of environmental samples that the laboratory spikes with a known concentration of certain target analytes. These samples assess laboratory performance by measuring the effects caused by the sample matrix. Per the FSP, one MS/MSD pair was collected in the field for every 20 field samples, or one per day, whichever is more frequent. Therefore, one MS/MSD soil sample pair was collected on each day of sampling for a total of five MS/MSD sample pairs.

In the laboratory report narrative, any analytes that are recovered outside of the acceptable criteria are noted. The laboratory states that MS/MSD recoveries of arsenic, iron, and manganese were outside of the acceptance criteria in one or more MS/MSD samples. However, post digestion spikes were performed for each pair and were within acceptance criteria (except for one nickel batch discussed below). This indicates that the unacceptable results were caused by the acid digestion process and not due to a problem with sample matrix interference.

Recoveries for arsenic were below or above acceptance criteria in several MS/MSD samples and arsenic results are potentially biased low or high. Additionally, the RPD for arsenic between one MS/MSD pair

was slightly above the acceptance criteria, indicating potential non-directional bias. Concentrations of arsenic were only slightly below an MSC in several samples, therefore this potential bias should be considered in determining whether or not a concentration should be considered an exceedance of the MSC.

Recoveries for iron were below or above acceptance criteria in several MS/MSD samples and iron results are potentially biased low or high. Iron concentrations were generally well below an MSC and conclusions are not likely to be affected by this potential bias.

Recoveries for manganese were below or above acceptance criteria in several MS/MSD samples and manganese results are potentially biased low or high. Additionally, the RPD for manganese between one MS/MSD pair was above the acceptance criteria, indicating potential non-directional bias. Manganese concentrations were generally well below or well above an MSC and conclusions are not likely to be affected by this potential bias.

Recoveries for nickel were below or above acceptance criteria in several MS/MSD samples and nickel results are potentially biased low or high. MS/MSD recoveries for nickel in the batch associated with samples FROG-SS-217(9.0-10.0) and FROG-SS-217(10.0-11.0) were below acceptance criteria and the post digestion spike also yielded low recovery, therefore the results are considered estimates and potentially biased low. Nickel concentrations were generally well below an MSC and conclusions are not likely to be affected by this potential bias.

Laboratory Control Samples/Laboratory Control Sample Duplicates (LCS/LCSD)

LCS/LCSD samples are a pair of samples from an analyte-free control matrix that the laboratory spikes with a known concentration of certain target analytes to assess general method performance. The laboratory prepared and analyzed one LCS pair per analytical batch. The laboratory narrative did not identify any analytes in any batches that were recovered outside of the acceptable criteria.

Surrogate Recovery

Surrogate spikes are analytes that are not normally found in the environment which are added to field samples and quality control samples to monitor the performance of organic analyses. The laboratory narrative did not identify any unacceptable surrogate recoveries.

Internal Standards

Internal standards are used by the laboratory to identify potential physical interferences and to ensure that the instrument is working properly during each analysis. The laboratory narrative did not identify any unacceptable internal standard responses.

Data Usability

Analytical results and quality control data were reviewed to conduct a data usability evaluation, which included an assessment of the following quality control elements, including but not limited to: chain of

custody, sample labels, sample containers, sample preservatives, holding times, blanks, field duplicates, MS/MSD, LCS/LCSD, surrogate recovery, regulatory criteria, reporting limits, and detection limits. The identified non-conformances to these QC elements were assessed to determine if the data are of sufficient quality for the intended purpose of this investigation. QC non-conformances introduce uncertainty in some of the results. In some cases, results may be biased and/or poor precision exists in the field collection and/or analytical procedure, and the data may not be representative of the actual concentrations of the compounds at the Site. In instances where potentially biased analytes were either slightly above or below an applicable MSC, the impacts of this bias should be considered in planning any further investigation or remedial actions. However, based on a review of the QC non-conformances, it has been determined that the data analyzed as part of this investigation are usable and meet project data quality objectives.

Appendix D

Summary Table of Phase II and Supplemental Phase II ESA Results

Appendix D1: Summary of Sample Locations

Location ID	Location Description	Date	Northing (US ft.)	Easting (US ft.)	Ground Surface Elevation (US ft.)	Boring Depth to Refusal (US ft.)	Potential Sources of Contamination	Sample ID	Laboratory Analysis
FROG-SB-101	Location of former UST “Old #1”	Oct 2025	316823.0	2128462.1	454.1	5.0	Historical Industry, USTs	FROG-SS-101(0-2)	Metals, Free Cyanide, VOCs, SVOCs, PCBs
								FROG-SS-101(3-5)	Metals, Free Cyanide, VOCs, SVOCs, PCBs
FROG-SB-102	Downgradient offset of former UST “Old #1”	Oct 2025	316841.1	2128458.0	454.3	21.0	Historical Industry, USTs	FROG-SS-102(0-2)	Metals, Free Cyanide, VOCs, SVOCs, PCBs
								FROG-SS-102(19-21)	Metals, Free Cyanide, VOCs, SVOCs, PCBs
FROG-SB-103	Vicinity of former UST “Old #2” and area with odors and vacant concrete pads	Oct 2025	316426.4	2128975.0	457.4	30.0	Historical Industry, USTs	FROG-SS-103(0-2)	Metals, Free Cyanide, VOCs, SVOCs, PCBs
								FROG-SS-103(28-30)	Metals, Free Cyanide, VOCs, SVOCs, PCBs
FROG-SB-104	Vicinity of former UST “Old #2” and area with odors and vacant concrete pads	Oct 2025	316418.0	2129014.0	457.6	11.5	Historical Industry, USTs	FROG-SS-104(0-2)	Metals, Free Cyanide, VOCs, SVOCs, PCBs
								FROG-SS-104(10-11.5)	Metals, Free Cyanide, VOCs, SVOCs, PCBs
FROG-SB-105	Downgradient offset of former UST “Old #2”	Oct 2025	316443.9	2129016.4	457.2	20.0	Historical Industry, USTs	FROG-SS-105(1-3)	Metals, Free Cyanide, VOCs, SVOCs, PCBs
								FROG-SS-105(13-15)	Metals, Free Cyanide, VOCs, SVOCs, PCBs
FROG-SB-108	Location of former USTs #001-005. Southern portion of tank field	Oct 2025	316445.6	2129152.0	458.0	7.5	USTs	FROG-SS-108(1-3)	Metals, VOCs, SVOCs
								FROG-SS-108(5.5-7.5)	Metals, VOCs, SVOCs
								FROG-SS-DUP-101	Metals, VOCs, SVOCs; Duplicate of FROG-SS-108(5.5-7.5)
FROG-SB-109	Location of former USTs #001-005. Northern portion of tank field	Oct 2025	316528.5	2129167.0	457.9	10.0	USTs	FROG-SS-109(2.5-4.5)	Metals, VOCs, SVOCs
								FROG-SS-109(8-10)	Metals, VOCs, SVOCs
FROG-SB-110	Downgradient offset of former USTs #001-005	Oct 2025	316556.5	2129152.3	458.0	13.5	USTs	FROG-SS-110(1.5-3.5)	Metals, VOCs, SVOCs
								FROG-SS-110(5-7)	Metals, VOCs, SVOCs
FROG-SB-111	South of stormwater sinkhole vault	Oct 2025	317023.6	2129052.2	456.1	11.0	Historical Industry, Stormwater Sinkhole	FROG-SS-111(0-2)	Metals, Free Cyanide, VOCs, SVOCs, PCBs
								FROG-SS-111(10-11)	Metals, Free Cyanide, VOCs, SVOCs, PCBs
FROG-SB-112	North of stormwater sinkhole vault	Oct 2025	317057.1	2129058.5	456.2	9.0	Historical Industry, Stormwater Sinkhole	FROG-SS-112(0-2)	Metals, Free Cyanide, VOCs, SVOCs, PCBs
								FROG-SS-112(7-9)	Metals, Free Cyanide, VOCs, SVOCs, PCBs
FROG-SB-113	South of transformer substation	Oct 2025	316931.3	2128442.3	452.4	8.0	Transformer Equipment	FROG-SS-113(0-2)	PCBs
								FROG-SS-113(6-8)	PCBs
FROG-SB-114	North of transformer substation	Oct 2025	316982.0	2128450.2	452.1	19.0	Transformer Equipment	FROG-SS-114(0-2)	PCBs
								FROG-SS-114(17-19)	PCBs
FROG-SB-115	Adjacent to former MGP Facility, southernmost sample location	Oct 2025	316552.7	2128038.8	453.8	8.5	Historical Industry, Offsite Impacts	FROG-SS-115(0-2)	Metals, Free Cyanide, VOCs, SVOCs, PCBs
								FROG-SS-115(6.5-8.5)	Metals, Free Cyanide, VOCs, SVOCs, PCBs
FROG-SB-116	Adjacent to former MGP Facility, middle sample location	Oct 2025	316658.1	2128136.2	455.0	20.5	Historical Industry, Offsite Impacts	FROG-SS-116(0-2)	Metals, Free Cyanide, VOCs, SVOCs, PCBs
								FROG-SS-116(18.5-20.5)	Metals, Free Cyanide, VOCs, SVOCs, PCBs
FROG-SB-117	Adjacent to former MGP Facility, northernmost sample location	Oct 2025	316739.4	2128210.1	454.5	13.0	Historical Industry, Offsite Impacts	FROG-SS-117(0-2)	Metals, Free Cyanide, VOCs, SVOCs, PCBs
								FROG-SS-DUP-103	Metals, Free Cyanide, VOCs, SVOCs, PCBs; Duplicate of FROG-SS-117(0-2)
								FROG-SS-117(11-13)	Metals, Free Cyanide, VOCs, SVOCs, PCBs
FROG-SB-118	Southern portion of scrapyard	Oct 2025	316625.6	2128702.4	455.8	13.0	Historical Industry, Scrapyard Grabber	FROG-SS-118(0-2)	Metals, Free Cyanide, VOCs, SVOCs, PCBs
								FROG-SS-118(10-12)	Metals, Free Cyanide, VOCs, SVOCs, PCBs
								FROG-SS-DUP-102	Metals, Free Cyanide, VOCs, SVOCs, PCBs; Duplicate of FROG-SS-118(10-12)
FROG-SB-119	Northern portion of scrapyard	Oct 2025	316707.9	2128742.0	455.6	1.8	Historical Industry, Scrapyard Grabber	FROG-SS-119(0-0.5)	Metals, Free Cyanide, VOCs, SVOCs, PCBs
								FROG-SS-119(0.5-1)	Metals, Free Cyanide, VOCs, SVOCs, PCBs
FROG-SB-120	Staining north of dry storage building	Oct 2025	316817.3	2129160.7	458.1	5.0	Historical Industry, Staining	FROG-SS-120(0-2)	Metals, Free Cyanide, VOCs, SVOCs, PCBs
								FROG-SS-120(2-3.5)	Metals, Free Cyanide, VOCs, SVOCs, PCBs

Appendix D1: Summary of Sample Locations

Location ID	Location Description	Date	Northing (US ft.)	Easting (US ft.)	Ground Surface Elevation (US ft.)	Boring Depth to Refusal (US ft.)	Potential Sources of Contamination	Sample ID	Laboratory Analysis
FROG-SB-121	Staining east of Frog Shop building, outside of drum storage annex	Oct 2025	316825.3	2129030.8	455.6	21.5	Historical Industry, Staining	FROG-SS-121(0-2)	Metals, Free Cyanide, VOCs, SVOCs, PCBs
								FROG-SS-121(20-21.5)	Metals, Free Cyanide, VOCs, SVOCs, PCBs
FROG-SB-122	Staining inside the Frog Shop. Southern portion of building interior	Oct 2025	316751.3	2128920.8	455.2	32.0	Historical Industry, Staining	FROG-SS-122(1.5-3.5)	Metals, Free Cyanide, VOCs, SVOCs, PCBs
								FROG-SS-122(30-32)	Metals, Free Cyanide, VOCs, SVOCs, PCBs
FROG-SB-123	Staining inside the Frog Shop. Northern portion of building interior	Oct 2025	317089.3	2128987.3	455.4	19.0	Historical Industry	FROG-SS-123(1-3)	Metals, Free Cyanide, VOCs, SVOCs, PCBs
								FROG-SS-123(17-19)	Metals, Free Cyanide, VOCs, SVOCs, PCBs
								FROG-SS-DUP-104	Metals, Free Cyanide, VOCs, SVOCs, PCBs; Duplicate of FROG-SS-123(17-19)
FROG-SS-124	Composite sample of Foundry Complex floor sand materials, west side of complex interior	Oct 2025	-	-	-	N/A	Historical Industry	FROG-SS-124(FLOOR)	Metals, Free Cyanide, SVOCs, PCBs
FROG-SS-125	Composite sample of Foundry Complex floor sand materials, southeast side of complex interior	Oct 2025	-	-	-	N/A	Historical Industry	FROG-SS-125(FLOOR)	Metals, Free Cyanide, SVOCs, PCBs
FROG-SS-126	Composite sample of Foundry Complex floor sand materials, north side of complex interor	Oct 2025	-	-	-	N/A	Historical Industry	FROG-SS-126(FLOOR)	Metals, Free Cyanide, SVOCs, PCBs
								FROG-SS-DUP-105	Metals, Free Cyanide, SVOCs, PCBs; Duplicate of FROG-SS-126(FLOOR)
FROG-SS-127	Grab sample of Foundry Complex floor staining in machine room, northeast side of complex interior	Oct 2025	316585.6	2128954.4	N/A	N/A	Historical Industry, Staining	FROG-SS-127(FLOOR)	Metals, Free Cyanide, VOCs, SVOCs, PCBs
FROG-SS-128	Grab sample on south side of foundation of Frog Shop annex building where fire occurred	Oct 2025	317116.6	2129046.8	N/A	N/A	Frog Shop Fire	FROG-SS-128(0-0.5)	Dioxins and Furans
FROG-SB-201	North offset of FROG-SB-118	June 2026	316668.7	2128678.0	455.5	15.0 (no refusal)	Historical Industry, Scrapyard Grabber	FROG-SS-201(1.0-2.0)	As
								FROG-SS-201(4.5-5.0)	As
								FROG-SS-201(9.5-10.)	As
								FROG-SS-201(14.5-15.0)	As
FROG-SB-202	East offset of FROG-SB-118	June 2026	316634.5	2128746.7	456.4	9.5	Historical Industry, Scrapyard Grabber	FROG-SS-202(1.0-2.0)	As
								FROG-SS-202(5.0-5.5)	As
								FROG-SS-202(7.5-8.0)	As
								FROG-SS-202(9.0-9.5)	As
FROG-SB-203	South offset of FROG-SB-118	June 2026	316622.6	2128725.2	456.1	2.0	Historical Industry, Scrapyard Grabber	FROG-SS-203(1.5-2.0)	As
FROG-SB-204	West offset of FROG-SB-118	June 2026	316627.1	2128666.7	455.2	4.0	Historical Industry, Scrapyard Grabber	FROG-SS-204(1.0-2.0)	As
								FROG-SS-204(3.5-4.0)	As
FROG-SB-205	North offset of FROG-SB-119	June 2026	316756.1	2128716.5	456.1	4.0	Historical Industry, Scrapyard Grabber	FROG-SS-205(1.0-2.0)	As, Fe, Mn
								FROG-SS-DUP-202	As, Fe, Mn; Duplicate of FROG-SS-205(1.0-2.0)
								FROG-SS-205(3.5-4.0)	As, Fe, Mn
FROG-SB-206	East offset of FROG-SB-119	June 2026	316711.1	2128795.2	456.5	11.0	Historical Industry, Scrapyard Grabber	FROG-SS-206(0.5-2.0)	As, Fe, Mn
								FROG-SS-206(4.5-5.0)	As, Fe, Mn
								FROG-SS-206(9.5-10.0)	As, Fe, Mn
								FROG-SS-206(10.5-11.0)	As, Fe, Mn

Appendix D1: Summary of Sample Locations

Location ID	Location Description	Date	Northing (US ft.)	Easting (US ft.)	Ground Surface Elevation (US ft.)	Boring Depth to Refusal (US ft.)	Potential Sources of Contamination	Sample ID	Laboratory Analysis
FROG-SB-207	South offset of FROG-SB-119	June 2026	316663.8	2128761.1	456.2	7.0	Historical Industry, Scrapyard Grabber	FROG-SS-207(0.5-2.0)	As, Fe, Mn
								FROG-SS-207(4.5-5.0)	As, Fe, Mn
								FROG-SS-207(5.5-6.0)	As, Fe, Mn
								FROG-SS-207(6.5-7.0)	As, Fe, Mn
FROG-SB-208	West offset of FROG-SB-119	June 2026	316719.8	2128702.8	455.5	12.5	Historical Industry, Scrapyard Grabber	FROG-SS-208(0.0-2.0)	As, Fe, Mn
								FROG-SS-208(4.5-5.0)	As, Fe, Mn
								FROG-SS-208(9.5-10.0)	As, Fe, Mn
								FROG-SS-208(12.0-12.5)	As, Fe, Mn
FROG-SB-209	North offset of FROG-SB-103/105	June 2026	316476.3	2128996.3	456.7	15.0 (no refusal)	Historical Industry, USTs	FROG-SS-209(0.0-2.0)	As, Co
								FROG-SS-209(4.5-5.0)	As, Co
								FROG-SS-209(9.5-10.0)	As, Co
								FROG-SS-209(14.5-15.0)	As, Co
FROG-SB-210	East offset of FROG-SB-103/105	June 2026	316447.9	2129043.2	456.6	15.0(no refusal)	Historical Industry, USTs	FROG-SS-210(0.0-2.0)	As, Co
								FROG-SS-210(4.5-5.0)	As, Co
								FROG-SS-210(9.5-10.0)	As, Co
								FROG-SS-210(14.5-15.0)	As, Co
FROG-SB-211	South offset of FROG-SB-103/105	June 2026	316422.1	2129003.6	457.9	10.5	Historical Industry, USTs	FROG-SS-211(0.0-2.0)	As, Co
								FROG-SS-211(4.5-5.0)	As, Co
								FROG-SS-211(7.5-8.0)	As, Co
								FROG-SS-211(10.0-10.5)	As, Co
FROG-SB-212	West offset of FROG-SB-103/105	June 2026	316430.4	2128961.8	457.3	14.0	Historical Industry, USTs	FROG-SS-212(0.0-2.0)	As, Co
								FROG-SS-212(4.5-5.0)	As, Co
								FROG-SS-212(5.0-7.0)	TPH-GRO and TPH-DRO
								FROG-SS-212(9.5-10.0)	As, Co
								FROG-SS-212(13.5-14.0)	As, Co
FROG-SB-213	North offset of FROG-SB-108	June 2026	316490.7	2129163.2	457.7	15.0 (no refusal)	USTs	FROG-SS-213(0.0-2.0)	As, Ni
								FROG-SS-213(4.5-5.0)	As, Ni
								FROG-SS-213(9.5-10.0)	As, Ni
								FROG-SS-213(14.5-15.0)	As, Ni
FROG-SB-214	East offset of FROG-SB-108	June 2026	316437.7	2129185.9	457.9	9.5	USTs	FROG-SS-214(0.0-2.0)	As
								FROG-SS-214(4.0-4.5)	As
								FROG-SS-214(5.0-5.5)	As
								FROG-SS-214(9.0-9.5)	As
FROG-SB-215	South offset of FROG-SB-108	June 2026	316420.1	2129147.9	458.3	15.0 (no refusal)	USTs	FROG-SS-215(0.0-2.0)	As
								FROG-SS-215(4.5-5.0)	As
								FROG-SS-DUP-201	As; Duplicate of FROG-SS-215(4.5-5.0)
								FROG-SS-215(9.5-10.0)	As
								FROG-SS-215(14.5-15.0)	As

Appendix D1: Summary of Sample Locations

Location ID	Location Description	Date	Northing (US ft.)	Easting (US ft.)	Ground Surface Elevation (US ft.)	Boring Depth to Refusal (US ft.)	Potential Sources of Contamination	Sample ID	Laboratory Analysis
FROG-SB-216	West offset of FROG-SB-108	June 2026	316443.2	2129111.7	458.6	8.0	USTs	FROG-SS-216(0.0-2.0)	As
								FROG-SS-216(4.5-5.0)	As
								FROG-SS-216(6.0-7.0)	As
								FROG-SS-216(7.5-8.0)	As
FROG-SB-217	North offset of FROG-SB-121	June 2026	316879.5	2129042.6	455.3	12.0	Historical Industry, Staining	FROG-SS-217(0.0-2.0)	As, Ni, PAHs
								FROG-SS-217(4.0-5.0)	As, Ni, PAHs
								FROG-SS-217(9.0-10.0)	As, Ni, PAHs
								FROG-SS-217(11.0-12.0)	As, Ni, PAHs
FROG-SB-218	East offset of FROG-SB-121	June 2026	316810.3	2129074.0	456.9	12.0	Historical Industry, Staining	FROG-SS-218(0.0-2.0)	As, PAHs
								FROG-SS-218(4.0-5.0)	As, PAHs
								FROG-SS-218(9.0-10.0)	As, PAHs
								FROG-SS-218(11.0-12.0)	As, PAHs
FROG-SB-219	South offset of FROG-SB-121	June 2026	316772.7	2129024.6	455.1	6.5	Historical Industry, Staining	FROG-SS-219(0.0-2.0)	As, PAHs
								FROG-SS-DUP-204	As, PAHs; Duplicate of FROG-SS-219(0.0-2.0)
								FROG-SS-219(4.0-5.0)	As, PAHs
								FROG-SS-219(5.5-6.5)	As, PAHs
FROG-SB-220	North offset of FROG-SB-120	June 2026	316868.4	2129166.8	458.0	6.0	Historical Industry, Staining	FROG-SS-220(0.0-2.0)	As, Ni, PAHs
								FROG-SS-220(4.0-5.0)	As, Ni, PAHs
								FROG-SS-DUP-203	As, Ni, PAHs; Duplicate of FROG-SS-220(4.0-5.0)
								FROG-SS-220(5.5-6.0)	As, Ni, PAHs
FROG-SB-221	East offset of FROG-SB-120	June 2026	316814.2	2129210.7	459.1	15.0 (no refusal)	Historical Industry, Staining	FROG-SS-221(0.0-2.0)	As, PAHs
								FROG-SS-221(4.0-5.0)	As, PAHs
								FROG-SS-221(9.0-10.0)	As, PAHs
								FROG-SS-221(14.0-15.0)	As, PAHs
FROG-SB-222	South offset of FROG-SB-120	June 2026	316785.8	2129153.7	458.2	11.5	Historical Industry, Staining	FROG-SS-222(0.0-2.0)	As, PAHs
								FROG-SS-222(4.0-4.5)	As, PAHs
								FROG-SS-222(9.0-10.0)	As, PAHs
								FROG-SS-222(10.5-11.5)	As, PAHs
FROG-SB-223	West offset of FROG-SB-120	June 2026	316822.9	2129107.5	458.0	11.5	Historical Industry, Staining	FROG-SS-223(0.0-2.0)	As, PAHs
								FROG-SS-223(4.0-5.0)	As, PAHs
								FROG-SS-223(9.0-10.0)	As, PAHs
								FROG-SS-223(10.5-11.5)	As, PAHs
FROG-SB-224	Adjacent to FROG-SB-122	June 2026	316751.7	2128916.5	455.3	15.0 (no refusal)	Historical Industry, Staining	FROG-SS-224(0.0-2.0)	As
								FROG-SS-224(4.5-5.0)	As
								FROG-SS-224(9.5-10.0)	As
								FROG-SS-224(14.5-15.0)	As

Appendix D1: Summary of Sample Locations

Location ID	Location Description	Date	Northing (US ft.)	Easting (US ft.)	Ground Surface Elevation (US ft.)	Boring Depth to Refusal (US ft.)	Potential Sources of Contamination	Sample ID	Laboratory Analysis
FROG-SB-225	Adjacent to FROG-SB-123	June 2026	317093.3	2128982.2	455.3	15.0 (no refusal)	Historical Industry, Staining	FROG-SS-225(0.0-2.0)	As
								FROG-SS-225(4.5-5.0)	As
								FROG-SS-225(9.5-10.0)	As
								FROG-SS-225(14.5-15.0)	As
FROG-SB-301	Soil Background Area	June 2026	317996.3	2129999.0	459.8	11.0	None	FROG-SS-301(0.0-2.0)	As
								FROG-SS-301(9.0-9.5)	As
FROG-SB-302	Soil Background Area	June 2026	317910.9	2130008.7	457.7	7.5	None	FROG-SS-302(0.0-2.0)	As
								FROG-SS-DUP-301	As; Duplicate of FROG-SS-302(0.0-2.0)
								FROG-SS-302(6.5-7.0)	As
FROG-SB-303	Soil Background Area	June 2026	317911.0	2130039.8	458.0	6.0	None	FROG-SS-303(0.0-2.0)	As
								FROG-SS-303(4.5-5.0)	As
FROG-SB-304	Soil Background Area	June 2026	317756.1	2130001.9	453.6	15.0 (no refusal)	None	FROG-SS-304(0.0-2.0)	As
								FROG-SS-304(14.5-15.0)	As
FROG-SB-305	Soil Background Area	June 2026	317741.3	2130040.5	456.1	7.5	None	FROG-SS-305(0.0-2.0)	As
								FROG-SS-305(7.0-7.5)	As
FROG-SB-306	Soil Background Area	June 2026	317710.0	2129997.1	452.9	9.5	None	FROG-SS-306(0.0-2.0)	As
								FROG-SS-306(3.0-3.5)	As
FROG-SB-307	Soil Background Area	June 2026	317690.5	2129972.4	453.9	10.5	None	FROG-SS-307(0.0-2.0)	As
								FROG-SS-307(8.0-8.5)	As
FROG-SB-308	Soil Background Area	June 2026	317648.1	2129975.1	455.4	15.0 (no refusal)	None	FROG-SS-308(0.0-2.0)	As
								FROG-SS-308(6.5-7.0)	As
FROG-SB-309	Soil Background Area	June 2026	317614.2	2129973.9	454.9	8.0	None	FROG-SS-309(0.0-2.0)	As
								FROG-SS-309(4.0-4.5)	As
FROG-SB-310	Soil Background Area	June 2026	317588.7	2129953.0	454.5	9.0	None	FROG-SS-310(0.0-2.0)	As
								FROG-SS-310(4.5-5.0)	As

Notes:

1. This table does not include matrix spike/matrix spike duplicate, field blank, and equipment blank quality control samples.
2. The sample depth (in feet below the ground surface) is shown in the Sample ID parenthesis. Some depths have been corrected and may differ from the laboratory analytical report.
3. Northing and Easting coordinates are based on NAD 83 StatePlane Pennsylvania South FIPS 3702 (US Feet). Ground surface elevation is based on the NorthAmerican Vertical Datum of 1988. Boring locations were professionally surveyed.
4. Potential sources of contamination are based on the recognized environmental conditions identified in the Phase I Environmental Assessment Report.
5. Metals analysis includes the total analyte list for EPA Method 6010D in addition to hexavalent chromium (EPA 7196A) and mercury (EPA 7471B). Individual metals analysis includes arsenic (As), cobalt (Co), iron (Fe), manganese (Mn), or nickel (Ni).
6. Free cyanide analysis by EPA 9016.
7. Volatile organic compounds (VOCs) analysis by EPA Method 8260D. VOCs were not analyzed for composite samples due to potential loss of volatiles during compositing.
8. Semivolatile organic compounds (SVOCs) or polycyclic aromatic hydrocarbons (PAH) analysis by EPA Method 8270E.
9. Polychlorinated biphenyls (PCBs) analysis by EPA Method 8082.
10. Dioxins and Furans by EPA Method 8290A
11. Total Petroleum Hydrocarbons (TPH) Gasoline Range Organics (GRO) and Diesel Range Organics (DRO) by EPA Method 8015D

Appendix D2(a): Direct Contact MSCs Compared to Soil Analytical Results - Inorganics

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations			FROG-SS-101 (0-2)	FROG-SS-101 (3-5)	FROG-SS-102 (0-2)	FROG-SS-102 (19-21)	FROG-SS-103 (0-2)	FROG-SS-103 (28-30)	FROG-SS-104 (0-2)	FROG-SS-104 (10-11.5)	FROG-SS-105 (1-3)	FROG-SS-105 (13-15)	FROG-SS-108 (1-3)	FROG-SS-108 (5.5-7.5)	FROG-SS-DUP-101	FROG-SS-109 (2.5-4.5)	FROG-SS-109 (8-10)	FROG-SS-110 (1.5-3.5)	FROG-SS-110 (5-7)	FROG-SS-111 (0-2)	FROG-SS-111 (10-11)	FROG-SS-112 (0-2)	FROG-SS-112 (7-9)
		Direct Contact Residential	Direct Contact Non-Residential Surface Soil	Direct Contact Non-Residential Subsurface Soil																					
Metals																									
aluminum	7429-90-5	190,000	190,000	190,000	**12,400**	**12,800**	**8,950**	**8,980**	**12,400**	**11,200**	**13,200**	**12,400**	**7,620**	**11,700**	**7,740**	**13,600**	**23,900**	**11,100**	**15,600**	**3,360**	**2,750**	**14,600**	**12,300**	**2,580**	**5,770**
antimony	7440-36-0	88	1,300	190,000	<4.73	<4.81	<4.48	<4.76	<21.8	<14.0	<11.9	<4.79	<22.6	<12.9	<4.87	<5.16	<24.6	<4.65	<12.0	<20.5	<20.3	<4.42	<4.95	<8.3	<1.68
arsenic	7440-38-2	12	61	190,000	**8.94**	**5.67**	**6.41**	**7.14**	**16.3**	**10.2**	**7.64**	**10.5**	**138**	**23.8**	**38.0**	**16.9**	**17.4**	**5.95**	**11.1**	**4.44**	**5.93**	**6.64**	**5.64**	**2.77**	**9.35**
barium	7440-39-3	44,000	190,000	190,000	**63.8**	**25.4**	**60.7**	**30.8**	**212**	**63.6**	**37.0**	**95.9**	**102**	**62.3**	**374**	**68.8**	**75.4**	**152**	**55.8**	**124**	**85.6**	**97.1**	**70.5**	**49.2**	**43**
beryllium	7440-41-7	440	6,400	190,000	**0.648**	**1.46**	**0.748**	**1.84**	1.68J	**3.35**	1.08J	**1.38**	0.696J	**5.80**	**1.71**	**3.51**	2.28J	**1.10**	**1.99**	<2.05	<2.03	**0.890**	**1.33**	0.110J	**0.946**
cadmium	7440-43-9	110	1,600	190,000	0.061J	0.095J	0.218J	0.097J	0.343J	0.212J	<2.37	0.107J	<4.52	0.209J	0.158J	<1.03	<4.92	0.093J	0.367J	<4.11	<4.06	<0.884	0.185J	0.117J	0.094J
calcium	7440-70-2	-	-	-	**1,810**	**2,110**	**13,800**	**1,780**	**1,180**	**2,320**	**1,470**	**1,230**	**18,500**	**3,270**	**13,200**	**44,900**	**4,120**	**1,520**	**2,080**	**4,790**	**4,270**	**4,980**	**8,080**	**5,550**	**10,100**
chromium, total	7440-47-3	-	-	-	**24.9**	**33.7**	**34.2**	**34.9**	**110**	**32.4**	**33.3**	**25.1**	**96.6**	**29.4**	**16.0**	**20.7**	**44.9**	**20.2**	**42.0**	**257**	**257**	**23.7**	**28.3**	**213**	**90.1**
chromium, trivalent	16065-83-1	190,000	190,000	190,000	**24.0J**	**33.7**	**34.2**	**34.9**	**109**	**32.4**	**33.3**	**25.1**	**96.6**	**29.2J**	**16.0**	**20.2J**	**44.5J**	**20.2**	**41.4J**	**257**	**254**	**23.7**	**28.3**	**208**	**89.9J**
chromium, hexavalent	18540-29-9	37	180	140,000	0.911J	<1.01	<0.897	<1.01	**1.28**	<1.15	<1.00	<0.992	<0.913	0.244J	<1.03	0.442J	0.410J	<0.974	0.548J	<0.834	**2.58**	<0.907	<0.999	**4.51**	0.184J
cobalt	7440-48-4	66	960	190,000	**10.0**	**14.2**	**8.57**	**15.2**	**101**	**14.7**	**32.7**	**12.3**	**18.2**	**9.66**	**14.0**	**9.14**	**20.0**	**11.2**	**27.8**	**65.7**	**60.5**	**16.9**	**16.4**	52.6	30.8
copper	7440-50-8	7,200	100,000	190,000	**16.6**	**23.1**	**40.8**	**21.8**	**16.0**	**26.8**	**19.4**	**14.9**	**140**	**45.8**	**76.8**	**21.0**	**28.7**	**9.33**	**21.6**	**157**	**147**	**45.5**	**17.6**	35.2	31.9
iron	7439-89-6	150,000	190,000	190,000	**26,900**	**37,100**	**20,700**	**26,400**	**73,500**	**36,600**	**35,600**	**27,300**	**64,600**	**50,400**	**19,400**	**29,600**	**60,500**	**21,000**	**56,900**	**57,500**	**52,200**	**38,200**	**35,600**	**31,000**	**30,400**
lead	7439-92-1	500	1,000	190,000	**22.3**	**18.3**	**51.2**	**18.6**	**46.0**	**17.8**	**21.0**	**13.6**	**79.5**	**22.3**	**115**	**17.6**	**31.8**	**17.4**	**17.4**	**170**	**165**	**17.4**	**22.6**	**16.0**	**17.4**
magnesium	7439-95-4	-	-	-	**1,010**	**518**	**3,400**	**1,730**	**475**	**1,350**	**10,000**	**2,680**	**8,020**	**892**	**1,790**	**18,200**	**2,000**	**1,400**	**991**	**124,000**	**114,000**	**6,700**	**4,300**	**97,800**	**46,900**
manganese	7439-96-5	31,000	190,000	190,000	**644**	**137**	**1,130**	**79.8**	**4,780**	**141**	**715**	**471**	**8,830**	**502**	**443**	**598**	**1,020**	**920**	**1,420**	**9,540**	**8,700**	**643**	**218**	**3,670**	**3,240**
mercury	7439-97-6	35	510	190,000	<0.086	**0.120**	**0.107**	<0.103	0.081J	0.096J	<0.081	<0.090	0.062J	**0.144**	**0.237**	**0.0880**	0.093J	<0.078	**0.132**	<0.083	<0.084	<0.085	0.082J	0.050J	0.061J
nickel	7440-02-0	4,400	64,000	190,000	**12.6**	**17.1**	**22.5**	**21.5**	**36.6**	**35.3**	**103**	**20.9**	**96.8**	**44.9**	**24.0**	**30.6**	**44.2**	**11.4**	**33.4**	**1,210**	**1,100**	**30.2**	**16.4**	**911**	**425**
potassium	7440-09-7	-	-	-	**580**	**401**	**423**	**516**	285J	639J	538J	**681**	488J	522J	**580**	**713**	1,070J	**511**	**639**	<1,030	246J	**605**	**577**	**<415**	408
selenium	7782-49-2	1,100	16,000	190,000	<1.89	<1.92	<1.79	<1.9	<8.73	<5.61	<4.75	<1.91	<9.03	<5.15	0.795J	<2.06	<9.84	0.502J	<4.78	<8.22	<8.12	<1.77	<1.98	<3.32	<1.68
silver	7440-22-4	1,100	16,000	190,000	<0.473	<0.481	<0.448	<0.476	<2.18	<1.40	<1.19	<0.479	<2.26	<1.29	0.460J	<0.516	<2.46	<0.465	<1.20	<2.05	<2.03	<0.442	<0.495	<0.830	<0.421
sodium	7440-23-5	-	-	-	<189	<192	<179	<190	<873	<561	<475	<191	<903	<515	**392**	142J	<984	**490**	<478	<822	<812	<177	<198	<332	272
thallium	7440-28-0	2.2	32	190,000	<1.89	<1.92	<1.79	<1.9	*<3.94	*<2.53	*<2.14	<1.91	*<4.07	*<2.32	<1.95	<2.06	*<4.44	<1.86	*<2.16	*<3.70	*<3.66	<1.77	<1.98	*<1.50	<1.68
vanadium	7440-62-2	1,100	16,000	190,000	**36.7**	**49.9**	**28.0**	**31.3**	**81.6**	**41.4**	**40.3**	**35.6**	**28.5**	**62.6**	**49.0**	**34.0**	**62.4**	**30.8**	**51.7**	**8.21**	**7.56**	**27.0**	**34.9**	**5.34**	**26.7**
zinc	7440-66-6	66,000	190,000	190,000	**30.6**	**26.8**	**78.4**	**46.5**	**36.8**	**58.0**	**33.6**	**44.4**	**88.8**	**67.3**	**216**	**43.0**	**61.7**	**51.3**	**85.2**	**84.6**	**85.2**	**71.7**	**94.4**	**22.2**	**39.3**
Free Cyanide																									
cyanide, free	57-12-5	130	1,900	190,000	<1.2	<1.3	<1.1	<1.3	<1.1	<1.4	<1.2	<1.2	<1.1	<1.4	NA	NA	NA	NA	NA	NA	NA	<1.1	<1.2	<1.1	<1.1

Appendix D2(a): Direct Contact MSCs Compared to Soil Analytical Results - Inorganics

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Direct Contact Residential	Direct Contact Non-Residential Surface Soil	Direct Contact Non-Residential Subsurface Soil	FROG-SS-115 (0-2)	FROG-SS-115 (6.5-8.5)	FROG-SS-116 (0-2)	FROG-SS-116 (18.5-20.5)	FROG-SS-117 (0-2)	FROG-SS-DUP-103	FROG-SS-117 (11-13)	FROG-SS-118 (0-2)	FROG-SS-118 (10-12)	FROG-SS-DUP-102	FROG-SS-119 (0-0.5)	FROG-SS-119 (0.5-1)	FROG-SS-120 (0-2)	FROG-SS-120 (2-3.5)	FROG-SS-121 (0-2)	FROG-SS-121 (20-21.5)	FROG-SS-122 (1.5-3.5)	FROG-SS-122 (30-32)	FROG-SS-123 (1-3)	FROG-SS-123 (17-19)	FROG-SS-DUP-104
Metals																									
aluminum	7429-90-5	190,000	190,000	190,000	**6,030**	**1,0100**	**2,440**	**8,240**	**4,820**	**4,320**	**9,170**	**12,000**	**15,700**	**12,900**	**3,440**	**6,930**	**3,960**	**5,980**	**5,160**	**14,800**	**4,940**	**7,760**	**1,1200**	**9,940**	**9,520**
antimony	7440-36-0	88	1,300	190,000	<21.0	<4.89	<20.8	<4.82	<4.04	<4.02	<4.58	<23.9	<24.3	<9.79	<42.5	<21.6	<8.5	<8.70	<21.6	<4.51	<4.52	<5.87	<4.48	<11.9	<11.8
arsenic	7440-38-2	12	61	190,000	**7.93**	**9.74**	**11.3**	**6.28**	**8.96**	**6.62**	**7.31**	**18.9**	**12.7**	**24.7**	**16.9**	**15.4**	**12.1**	**22.0**	**22.1**	**13.8**	**8.78**	**14.0**	**7.02**	**13.8**	**14.3**
barium	7440-39-3	44,000	190,000	190,000	**78.2**	**22.7**	**33.3**	**35.1**	**58.6**	**46.0**	**60.0**	**439**	**102**	**65.6**	**144**	**251**	**102**	**101**	**120**	**147**	**87.7**	**324**	**95.3**	**35.1**	**33.4**
beryllium	7440-41-7	440	6,400	190,000	0.468J	**1.79**	<2.08	**1.59**	0.377J	0.273J	**1.22**	1.98J	**4.21**	**3.99**	<4.25	0.301J	0.188J	0.491J	0.499J	**1.82**	**0.620**	**2.00**	**0.956**	0.620J	0.584J
cadmium	7440-43-9	110	1,600	190,000	<4.20	0.120J	1.30J	0.840J	0.116J	<0.805	<0.915	0.757J	0.369J	0.302J	2.56J	0.700J	0.332J	1.12J	<4.31	0.103J	0.136J	<1.17	0.055J	<2.38	<2.36
calcium	7440-70-2	-	-	-	**2,580**	**602**	**6,600**	**1,280**	**7,880**	**36,300**	**43,500**	**23,400**	**10,300**	**60,700**	**44,500**	**129,000**	**3,210**	**9,230**	**42,700**	**3,720**	**4,980**	**29,500**	**3,800**	**2,200**	**2,420**
chromium, total	7440-47-3	-	-	-	**101**	**27.2**	**332**	**53.9**	**85.9**	**78.0**	**78.6**	**162**	**41.6**	**35.0**	**1,390**	**222**	**94.6**	**413**	**60.9**	**32.3**	**15.2**	**20.5**	**24.8**	**50.9**	**70.9**
chromium, trivalent	16065-83-1	190,000	190,000	190,000	**101**	**27.2**	**317**	**51.3**	**85.9**	**77.4J**	**76.9**	**162**	**41.6**	**34.6J**	**1,380**	**220**	**94.6**	**411**	**60.9**	**31.9J**	**14.3J**	**20.1J**	**23.9J**	**50.5J**	**70.6J**
chromium, hexavalent	18540-29-9	37	180	140,000	<0.871	<0.988	**14.6**	<0.988	<0.846	0.629J	**1.71**	<0.978	<0.995	0.351J	**4.20**	**2.44**	<0.876	**1.94**	<0.876	0.393J	0.853J	0.431J	0.862J	0.422J	0.346J
cobalt	7440-48-4	66	960	190,000	**12.6**	**38.8**	**24.6**	**23.0**	**14.4**	**13.3**	**16.4**	**66.0**	**32.9**	**29.8**	**45.6**	**15.1**	**13.7**	**28.6**	**34.4**	**13.5**	**12.5**	**18.2**	**15.4**	**7.33**	**7.02**
copper	7440-50-8	7,200	100,000	190,000	**73.1**	**34.9**	**195**	**25.8**	**69.8**	**57.2**	**22.8**	**69.5**	**31.4**	**26.0**	**649**	**127**	**93.7**	**196**	**276**	**39.8**	**24.2**	**33.6**	**10.1**	**24.7**	**23.0**
iron	7439-89-6	150,000	190,000	190,000	**32,900**	**35,000**	**53,300**	**24,900**	**29,900**	**28,000**	**40,100**	**98,200**	**83,900**	**74,200**	**194,000**	**50,500**	**47,200**	**62,500**	**111,000**	**30,200**	**25,500**	**32,300**	**22,500**	**41,300**	**40,800**
lead	7439-92-1	500	1,000	190,000	**63.4**	**41.0**	**29.0**	**25.3**	**38.8**	**25.0**	**20.0**	**73.1**	**24.3**	**18.8**	**124**	**130**	**46.1**	**58.4**	**290**	**24.6**	**24.2**	**22.4**	**28.5**	**17.5**	**17.4**
magnesium	7439-95-4	-	-	-	**12,600**	**1,070**	**43,400**	**2,700**	**15,600**	**18,800**	**27,200**	**27,800**	**2,070**	**2,000**	**54,400**	**30,700**	**14,400**	**40,600**	**8,240**	**4,620**	**746**	**1,140**	**1,560**	**357**	**347**
manganese	7439-96-5	31,000	190,000	190,000	**20,500**	**138**	**8,260**	**452**	**5,630**	**4,290**	**1,030**	**7,580**	**924**	**611**	**60,900**	**36,900**	**13,300**	**10,700**	**8,880**	**3,070**	**572**	**2,510**	**989**	**252**	**260**
mercury	7439-97-6	35	510	190,000	0.047J	**0.114**	0.055J	0.070J	<0.077	<0.071	<0.096	**0.840**	**0.104**	**0.237**	0.054J	**0.100**	**0.107**	**0.113**	**0.149**	**0.192**	<0.09	**0.142**	**0.093**	<0.100	<0.096
nickel	7440-02-0	4,400	64,000	190,000	**120**	**31.6**	**429**	**25.0**	**152**	**166**	**33.3**	**251**	**41.5**	**35.4**	**568**	**171**	**141**	**368**	**114**	**27.9**	**12.9**	**45.3**	**13.1**	**14.5**	**13.7**
potassium	7440-09-7	-	-	-	422J	**346**	<1,040	**431**	**270**	**271**	**546**	545J	825J	**698**	<2,130	534J	268J	362J	504J	**1,250**	**540**	**505**	**637**	323J	311J
selenium	7782-49-2	1,100	16,000	190,000	<8.40	<1.96	<8.32	<1.93	<1.61	<1.61	<1.83	<9.57	<9.74	<3.91	<17.0	<8.64	<3.4	<3.48	<8.62	<1.8	<1.81	<2.35	<1.79	<4.76	<4.73
silver	7440-22-4	1,100	16,000	190,000	<2.10	<0.489	<2.08	<0.482	0.244J	<0.402	<0.458	<2.39	<2.43	<0.979	<4.25	<2.16	<0.850	<0.870	**2.20**	<0.451	<0.452	<0.587	<0.448	<1.19	<1.18
sodium	7440-23-5	-	-	-	<840	<196	<832	<193	<161	<161	<183	<957	<974	<391	<1,700	<864	**798**	**505**	<862	<180	<181	<235	<179	<476	<473
thallium	7440-28-0	2.2	32	190,000	*<3.79	<1.96	*<3.75	<1.93	<1.61	<1.61	<1.83	*<4.32	*<4.39	*<1.76	*<38.4	*<3.90	*<1.53	*<1.57	*<3.89	<1.8	<1.81	*<1.06	<1.79	*<2.14	*<2.13
vanadium	7440-62-2	1,100	16,000	190,000	**16.3**	**52.8**	**14.9**	**53.5**	**15.5**	**12.1**	**38.9**	**57.4**	**82.4**	**73.1**	**80.5**	**15.6**	**14.3**	25.0	44.3	41.4	27.1	46.9	29.9	81.4	78.7
zinc	7440-66-6	66,000	190,000	190,000	**76.7**	**82**	**63.2**	**31.6**	**47.9**	**39.7**	**29**	**148**	**63.2**	**48.4**	**399**	**205**	**72**	**192**	**240**	**34.1**	**17.8**	**51.4**	**32.7**	**35.2**	**34.5**
Free Cyanide																									
cyanide, free	57-12-5	130	1,900	190,000	<1.1	<1.2	<1.1	<1.2	<1.0	<1.0	<1.2	<1.2	<1.2	<1.2	<1.1	<1.1	<1.1	<1.1	<1.1	<1.2	<1.2	<1.5	<1.2	<1.2	<1.2

Appendix D2(a): Direct Contact MSCs Compared to Soil Analytical Results - Inorganics

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Direct Contact Residential	Direct Contact Non-Residential Surface Soil	Direct Contact Non-Residential Subsurface Soil	FROG-SS-124 (FLOOR)	FROG-SS-125 (FLOOR)	FROG-SS-126 (FLOOR)	FROG-SS-DUP-105	FROG-SS-127 (FLOOR)	FROG-SS-201(1.0-2.0)	FROG-SS-201 (4.5-5.0)	FROG-SS-201 (9.5-10.)	FROG-SS-201 (14.5-15.0)	FROG-SS-202 (1.0-2.0)	FROG-SS-202 (5.0-5.5)	FROG-SS-202 (7.5-8.0)	FROG-SS-202 (9.0-9.5)	FROG-SS-203 (1.5-2.0)	FROG-SS-204 (1.0-2.0)	FROG-SS-204 (3.5-4.0)	FROG-SS-205 (1.0-2.0)	FROG-SS-DUP-202	FROG-SS-205 (3.5-4.0)	FROG-SS-206 (0.5-2.0)
Metals																								
aluminum	7429-90-5	190,000	190,000	190,000	**2,330**	**2,150**	**4,660**	**3,110**	**4,490**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
antimony	7440-36-0	88	1,300	190,000	<20.1	<19.6	<19.2	<19.8	<19.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
arsenic	7440-38-2	12	61	190,000	**8.43**	**6.01**	**9.61**	**9.26**	**14.3**	3.63J	**8.76**	**7.57**	**9.84**	**9.38**	**18.8**	**16.8**	**18.2**	**4.46**	**9.43**	**10.9**	**5.38**	**4.55**	**11.2**	**13.3**
barium	7440-39-3	44,000	190,000	190,000	**323**	**252**	**466**	**341**	**152**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
beryllium	7440-41-7	440	6,400	190,000	<2.01	<1.96	<1.92	<1.98	0.280J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cadmium	7440-43-9	110	1,600	190,000	0.867J	0.268J	0.961J	0.649J	1.06J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
calcium	7440-70-2	-	-	-	**22,200**	**2,180**	**17,100**	**4,830**	**20,000**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, total	7440-47-3	-	-	-	**420**	**244**	**676**	**506**	**1,300**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, trivalent	16065-83-1	190,000	190,000	190,000	**420J**	**244J**	**676**	**506**	**1,300J**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, hexavalent	18540-29-9	37	180	140,000	0.419J	0.233J	<0.810	<0.807	0.222J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cobalt	7440-48-4	66	960	190,000	**56.6**	**50.1**	**69.9**	**57.4**	**44.7**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
copper	7440-50-8	7,200	100,000	190,000	**559**	**125**	**404**	**297**	**1,300**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
iron	7439-89-6	150,000	190,000	190,000	**77,100**	**41,600**	**99,900**	**84,400**	**158,000**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**50,300**	**41,300**	**43,400**	**37,200**
lead	7439-92-1	500	1,000	190,000	**47.5**	17.6J	**93.8**	**67.7**	**146**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
magnesium	7439-95-4	-	-	-	**135,000**	**121,000**	**148,000**	**124,000**	**54,200**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
manganese	7439-96-5	31,000	190,000	190,000	**6,420**	**6,430**	**20,300**	**11,700**	**30,200**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**13,600**	**11,200**	**2,250**	**925**
mercury	7439-97-6	35	510	190,000	<0.083	<0.065	<0.075	<0.080	<0.072	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
nickel	7440-02-0	4,400	64,000	190,000	**1,250**	**1,130**	**1,270**	**1,110**	**620**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
potassium	7440-09-7	-	-	-	431J	306J	421J	266J	485J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
selenium	7782-49-2	1,100	16,000	190,000	<8.05	<7.83	<7.69	<7.94	<7.79	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
silver	7440-22-4	1,100	16,000	190,000	1.36J	<1.96	<1.92	<1.98	<1.95	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sodium	7440-23-5	-	-	-	**2,950**	**4,780**	**2,810**	**1,920**	579J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
thallium	7440-28-0	2.2	32	190,000	*<3.63	*<3.53	*<17.3	<7.94	*<17.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
vanadium	7440-62-2	1,100	16,000	190,000	22.3	11.0	27.7	20.0	60.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
zinc	7440-66-6	66,000	190,000	190,000	**299**	**112**	**296**	**205**	**127**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Free Cyanide																								
cyanide, free	57-12-5	130	1,900	190,000	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix D2(a): Direct Contact MSCs Compared to Soil Analytical Results - Inorganics

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Direct Contact Residential	Direct Contact Non-Residential Surface Soil	Direct Contact Non-Residential Subsurface Soil	FROG-SS-206 (4.5-5.0)	FROG-SS-206 (9.5-10.0)	FROG-SS-206 (10.5-11.0)	FROG-SS-207 (0.5-2.0)	FROG-SS-207 (4.5-5.0)	FROG-SS-207 (5.5-6.0)	FROG-SS-207 (6.5-7.0)	FROG-SS-208 (0.0-2.0)	FROG-SS-208 (4.5-5.0)	FROG-SS-208 (9.5-10.0)	FROG-SS-208 (12.0-12.5)	FROG-SS-209 (0.0-2.0)	FROG-SS-209 (4.5-5.0)	FROG-SS-209 (9.5-10.0)	FROG-SS-209 (14.5-15.0)	FROG-SS-210 (0.0-2.0)	FROG-SS-210 (4.5-5.0)	FROG-SS-210 (9.5-10.0)	FROG-SS-210 (14.5-15.0)	FROG-SS-211 (0.0-2.0)
Metals																								
aluminum	7429-90-5	190,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
antimony	7440-36-0	88	1,300	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
arsenic	7440-38-2	12	61	190,000	**7.76**	**10.1**	**20.0**	**38.9**	**14.8**	**29.6**	**55.5**	**37.4**	**8.37**	**9.68**	**19.0**	**2.55**	**6.96**	**9.79**	**4.62**	**5.54**	**5.94**	**15.4**	**23.0**	**16.5**
barium	7440-39-3	44,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
beryllium	7440-41-7	440	6,400	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cadmium	7440-43-9	110	1,600	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
calcium	7440-70-2	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, total	7440-47-3	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, trivalent	16065-83-1	190,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, hexavalent	18540-29-9	37	180	140,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cobalt	7440-48-4	66	960	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**5.70**	**4.80**	**9.53**	**17.4**	**6.68**	**7.93**	**17.8**	**12.7**	**63.4**
copper	7440-50-8	7,200	100,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
iron	7439-89-6	150,000	190,000	190,000	**31,200**	**31,900**	**40,900**	**84,100**	**70,200**	**103,000**	**54,600**	**144,000**	**37,800**	**42,600**	**44,900**	NA	NA	NA	NA	NA	NA	NA	NA	NA
lead	7439-92-1	500	1,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
magnesium	7439-95-4	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
manganese	7439-96-5	31,000	190,000	190,000	**189**	**1,680**	**536**	**51,600**	**615**	**904**	**814**	**6,500**	**216**	**1,660**	**891**	NA	NA	NA	NA	NA	NA	NA	NA	NA
mercury	7439-97-6	35	510	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
nickel	7440-02-0	4,400	64,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
potassium	7440-09-7	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
selenium	7782-49-2	1,100	16,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
silver	7440-22-4	1,100	16,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sodium	7440-23-5	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
thallium	7440-28-0	2.2	32	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
vanadium	7440-62-2	1,100	16,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
zinc	7440-66-6	66,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Free Cyanide																								
cyanide, free	57-12-5	130	1,900	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix D2(a): Direct Contact MSCs Compared to Soil Analytical Results - Inorganics

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Direct Contact Residential	Direct Contact Non-Residential Surface Soil	Direct Contact Non-Residential Subsurface Soil	FROG-SS-211 (4.5-5.0)	FROG-SS-211 (7.5-8.0)	FROG-SS-211 (10.0-10.5)	FROG-SS-212 (0.0-2.0)	FROG-SS-212 (4.5-5.0)	FROG-SS-212 (9.5-10.0)	FROG-SS-212 (13.5-14.0)	FROG-SS-213 (0.0-2.0)	FROG-SS-213 (4.5-5.0)	FROG-SS-213 (9.5-10.0)	FROG-SS-213 (14.5-15.0)	FROG-SS-214 (0.0-2.0)	FROG-SS-214 (4.0-4.5)	FROG-SS-214 (5.0-5.5)	FROG-SS-214 (9.0-9.5)	FROG-SS-215 (0.0-2.0)	FROG-SS-215 (4.5-5.0)	FROG-SS-DUP-201	FROG-SS-215 (9.5-10.0)	FROG-SS-215 (14.5-15.0)
Metals																								
aluminum	7429-90-5	190,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
antimony	7440-36-0	88	1,300	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
arsenic	7440-38-2	12	61	190,000	**6.78**	**6.93**	**9.49**	**15.6**	**6.78**	**6.18**	**7.30**	**2.79**	**4.37**	**4.58**	**5.27**	**3.78**	**9.55**	**4.04**	**11.3**	**3.10**	**4.17**	**3.88**	**1.55**	**6.23**
barium	7440-39-3	44,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
beryllium	7440-41-7	440	6,400	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cadmium	7440-43-9	110	1,600	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
calcium	7440-70-2	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, total	7440-47-3	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, trivalent	16065-83-1	190,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, hexavalent	18540-29-9	37	180	140,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cobalt	7440-48-4	66	960	190,000	**9.88**	**8.36**	**5.94**	**57.2**	**75.1**	**39.6**	**13.1**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
copper	7440-50-8	7,200	100,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
iron	7439-89-6	150,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
lead	7439-92-1	500	1,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
magnesium	7439-95-4	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
manganese	7439-96-5	31,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
mercury	7439-97-6	35	510	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
nickel	7440-02-0	4,400	64,000	190,000	NA	NA	NA	NA	NA	NA	NA	**56.9**	**10.9**	**17.8**	**18.5**	NA	NA	NA	NA	NA	NA	NA	NA	NA
potassium	7440-09-7	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
selenium	7782-49-2	1,100	16,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
silver	7440-22-4	1,100	16,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sodium	7440-23-5	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
thallium	7440-28-0	2.2	32	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
vanadium	7440-62-2	1,100	16,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
zinc	7440-66-6	66,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Free Cyanide																								
cyanide, free	57-12-5	130	1,900	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix D2(a): Direct Contact MSCs Compared to Soil Analytical Results - Inorganics

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Direct Contact Residential	Direct Contact Non-Residential Surface Soil	Direct Contact Non-Residential Subsurface Soil	FROG-SS-216 (0.0-2.0)	FROG-SS-216 (4.5-5.0)	FROG-SS-216 (6.0-7.0)	FROG-SS-216 (7.5-8.0)	FROG-SS-217 (0.0-2.0)	FROG-SS-217 (4.0-5.0)	FROG-SS-217 (9.0-10.0)	FROG-SS-217 (11.0-12.0)	FROG-SS-218 (0.0-2.0)	FROG-SS-218 (4.0-5.0)	FROG-SS-218 (9.0-10.0)	FROG-SS-218 (11.0-12.0)	FROG-SS-219 (0.0-2.0)	FROG-SS-DUP-204	FROG-SS-219 (4.0-5.0)	FROG-SS-219 (5.5-6.5)	FROG-SS-220 (0.0-2.0)	FROG-SS-220 (4.0-5.0)	FROG-SS-DUP-203	FROG-SS-220 (5.5-6.0)
Metals																								
aluminum	7429-90-5	190,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
antimony	7440-36-0	88	1,300	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
arsenic	7440-38-2	12	61	190,000	**5.08**	**1.74**	**9.05**	**2.86**	**9.05**	**19.5**	**10.5**	**17.6**	**9.45**	**11.9**	**17.0**	**11.8**	**9.76**	**6.84**	**7.25**	**17.2**	**8.94**	**5.76**	4.21J	**11.4**
barium	7440-39-3	44,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
beryllium	7440-41-7	440	6,400	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cadmium	7440-43-9	110	1,600	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
calcium	7440-70-2	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, total	7440-47-3	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, trivalent	16065-83-1	190,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, hexavalent	18540-29-9	37	180	140,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cobalt	7440-48-4	66	960	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
copper	7440-50-8	7,200	100,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
iron	7439-89-6	150,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
lead	7439-92-1	500	1,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
magnesium	7439-95-4	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
manganese	7439-96-5	31,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
mercury	7439-97-6	35	510	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
nickel	7440-02-0	4,400	64,000	190,000	NA	NA	NA	NA	**165**	**97.9**	**18.6**	**40.3**	NA	NA	NA	NA	NA	NA	NA	NA	**493**	**599**	**531**	**18.7**
potassium	7440-09-7	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
selenium	7782-49-2	1,100	16,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
silver	7440-22-4	1,100	16,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sodium	7440-23-5	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
thallium	7440-28-0	2.2	32	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
vanadium	7440-62-2	1,100	16,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
zinc	7440-66-6	66,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Free Cyanide																								
cyanide, free	57-12-5	130	1,900	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix D2(a): Direct Contact MSCs Compared to Soil Analytical Results - Inorganics

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Direct Contact Residential	Direct Contact Non-Residential Surface Soil	Direct Contact Non-Residential Subsurface Soil	FROG-SS-221 (0.0-2.0)	FROG-SS-221 (4.0-5.0)	FROG-SS-221 (9.0-10.0)	FROG-SS-221 (14.0-15.0)	FROG-SS-222 (0.0-2.0)	FROG-SS-222 (4.0-4.5)	FROG-SS-222 (9.0-10.0)	FROG-SS-222 (10.5-11.5)	FROG-SS-223 (0.0-2.0)	FROG-SS-223 (4.0-5.0)	FROG-SS-223 (9.0-10.0)	FROG-SS-223 (10.5-11.5)	FROG-SS-224 (0.0-2.0)	FROG-SS-224 (4.5-5.0)	FROG-SS-224 (9.5-10.0)	FROG-SS-224 (14.5-15.0)	FROG-SS-225 (0.0-2.0)	FROG-SS-225 (4.5-5.0)	FROG-SS-225 (9.5-10.0)	FROG-SS-225 (14.5-15.0)
Metals																							
aluminum	7429-90-5	190,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
antimony	7440-36-0	88	1,300	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
arsenic	7440-38-2	12	61	190,000	**6.93**	**25.3**	**4.33**	**4.42**	**10.5**	**9.80**	**7.18**	**13.7**	**4.59**	**5.93**	**11.0**	**9.17**	**7.70**	**10.1**	**7.28**	**9.78**	**5.10**	**3.89**	**2.26**	**3.13**
barium	7440-39-3	44,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
beryllium	7440-41-7	440	6,400	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cadmium	7440-43-9	110	1,600	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
calcium	7440-70-2	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, total	7440-47-3	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, trivalent	16065-83-1	190,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, hexavalent	18540-29-9	37	180	140,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cobalt	7440-48-4	66	960	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
copper	7440-50-8	7,200	100,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
iron	7439-89-6	150,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
lead	7439-92-1	500	1,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
magnesium	7439-95-4	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
manganese	7439-96-5	31,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
mercury	7439-97-6	35	510	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
nickel	7440-02-0	4,400	64,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
potassium	7440-09-7	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
selenium	7782-49-2	1,100	16,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
silver	7440-22-4	1,100	16,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sodium	7440-23-5	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
thallium	7440-28-0	2.2	32	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
vanadium	7440-62-2	1,100	16,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
zinc	7440-66-6	66,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Free Cyanide																							
cyanide, free	57-12-5	130	1,900	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix D2(a): Direct Contact MSCs Compared to Soil Analytical Results - Inorganics

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Direct Contact Residential	Direct Contact Non-Residential Surface Soil	Direct Contact Non-Residential Subsurface Soil	FROG-SS-301 (0.0-2.0)	FROG-SS-301 (9.0-9.5)	FROG-SS-302 (0.0-2.0)	FROG-SS-DUP-301	FROG-SS-302 (6.5-7.0)	FROG-SS-303 (0.0-2.0)	FROG-SS-303 (4.5-5.0)	FROG-SS-304 (0.0-2.0)	FROG-SS-304 (14.5-15.0)	FROG-SS-305 (0.0-2.0)	FROG-SS-305 (7.0-7.5)	FROG-SS-306 (0.0-2.0)	FROG-SS-306 (3.0-3.5)	FROG-SS-307 (0.0-2.0)	FROG-SS-307 (8.0-8.5)	FROG-SS-308 (0.0-2.0)	FROG-SS-308 (6.5-7.0)	FROG-SS-309 (0.0-2.0)	FROG-SS-309 (4.0-4.5)	FROG-SS-310 (0.0-2.0)	FROG-SS-310 (4.5-5.0)
Metals																									
aluminum	7429-90-5	190,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
antimony	7440-36-0	88	1,300	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
arsenic	7440-38-2	12	61	190,000	**7.56**	**12.4**	**8.07**	**5.83**	**8.81**	**9.63**	**11.9**	**9.72**	**24.3**	**9.07**	**10.7**	**9.72**	**8.81**	**10.1**	**13.1**	**8.97**	**10.9**	**9.57**	**5.78**	**5.36**	**4.76**
barium	7440-39-3	44,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
beryllium	7440-41-7	440	6,400	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cadmium	7440-43-9	110	1,600	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
calcium	7440-70-2	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, total	7440-47-3	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, trivalent	16065-83-1	190,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, hexavalent	18540-29-9	37	180	140,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cobalt	7440-48-4	66	960	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
copper	7440-50-8	7,200	100,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
iron	7439-89-6	150,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
lead	7439-92-1	500	1,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
magnesium	7439-95-4	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
manganese	7439-96-5	31,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
mercury	7439-97-6	35	510	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
nickel	7440-02-0	4,400	64,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
potassium	7440-09-7	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
selenium	7782-49-2	1,100	16,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
silver	7440-22-4	1,100	16,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sodium	7440-23-5	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
thallium	7440-28-0	2.2	32	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
vanadium	7440-62-2	1,100	16,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
zinc	7440-66-6	66,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Free Cyanide																									
cyanide, free	57-12-5	130	1,900	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix D2(b): Direct Contact MSCs Compared to Soil Analytical Results - Volatile Organic Compounds

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Direct Contact Residential	Direct Contact Non-Residential Surface Soil	Direct Contact Non-Residential Subsurface Soil	FROG-SS-101 (0-2)	FROG-SS-101 (3-5)	FROG-SS-102 (0-2)	FROG-SS-102 (19-21)	FROG-SS-103 (0-2)	FROG-SS-103 (28-30)	FROG-SS-104 (0-2)	FROG-SS-104 (10-11.5)	FROG-SS-105 (1-3)	FROG-SS-105 (13-15)	FROG-SS-108 (1-3)	FROG-SS-108 (5.5-7.5)	FROG-SS-DUP-101	FROG-SS-109 (2.5-4.5)	FROG-SS-109 (8-10)	FROG-SS-110 (1.5-3.5)	FROG-SS-110 (5-7)	FROG-SS-111 (0-2)	FROG-SS-111 (10-11)	FROG-SS-112 (0-2)	FROG-SS-112 (7-9)	FROG-SS-115 (0-2)
Volatile Organic Compounds																										
dichlorodifluoromethane	75-71-8	1,900	8000	9100	<0.011	<0.011	<0.0095	<0.010	<0.013	<0.014	<0.012	<0.010	<0.011	<0.013	<0.012	<0.013	<0.014	<0.010	<0.011	<0.0099	<0.0079	<0.010	<0.012	<0.010	<0.010	<0.013
chloromethane	74-87-3	250	1,200	1400	<0.0044	<0.0044	<0.0038	<0.0042	<0.0051	<0.0056	<0.0046	<0.0041	<0.0044	<0.0053	<0.0048	<0.0054	<0.0054	<0.0042	<0.0044	<0.004	<0.0032	<0.0041	<0.0050	<0.0040	<0.0041	<0.0053
vinyl chloride	75-01-4	0.93	61	290	<0.0011	<0.0011	<0.00095	<0.0010	<0.0013	<0.0014	<0.0012	<0.0010	<0.0011	<0.0013	<0.0012	<0.0013	<0.0014	<0.001	<0.0011	<0.00099	<0.00079	<0.0010	<0.0012	<0.0010	<0.0010	<0.0013
bromomethane	74-83-9	95	400	460	<0.0022	<0.0022	<0.0019	<0.0021	<0.0026	<0.0028	<0.0023	<0.0021	<0.0022	<0.0026	<0.0024	<0.0027	<0.0027	<0.0021	<0.0022	<0.0020	<0.0016	<0.002	<0.0025	<0.0020	<0.0020	<0.0027
chloroethane	75-00-3	10,000	10,000	10,000	<0.0022	<0.0022	<0.0019	<0.0021	<0.0026	<0.0028	<0.0023	<0.0021	<0.0022	<0.0026	<0.0024	<0.0027	<0.0027	<0.0021	<0.0022	<0.0020	<0.0016	<0.0020	<0.0025	<0.0020	<0.0020	<0.0027
trichlorofluoromethane	75-69-4	10,000	10,000	10,000	<0.0044	<0.0044	<0.0038	<0.0042	<0.0051	<0.0056	<0.0046	<0.0041	<0.0044	<0.0053	<0.0048	<0.0054	<0.0054	<0.0042	<0.0044	<0.0040	<0.0032	<0.0041	<0.005	<0.0040	<0.0041	<0.0053
1,1-dichloroethene	75-35-4	3,800	10,000	10,000	<0.0011	<0.0011	<0.00095	<0.0010	<0.0013	<0.0014	<0.0012	<0.0010	<0.0011	<0.0013	<0.0012	<0.0013	<0.0014	<0.0010	<0.0011	<0.00099	<0.00079	<0.0010	<0.0012	<0.0010	<0.0010	<0.0013
carbon disulfide	75-15-0	10,000	10,000	10,000	<0.011	<0.011	<0.0095	<0.010	<0.013	<0.014	<0.012	<0.010	<0.011	<0.013	<0.012	<0.013	<0.014	<0.010	<0.011	<0.0099	<0.0079	<0.010	<0.012	<0.010	<0.010	<0.013
1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	10,000	10,000	10,000	<0.0044	<0.0044	<0.0038	<0.0042	<0.0051	<0.0056	<0.0046	<0.0041	<0.0044	<0.0053	<0.0048	<0.0054	<0.0054	<0.0042	<0.0044	<0.0040	<0.0032	<0.0041	<0.0050	<0.0040	<0.0041	<0.0053
methylene chloride	75-09-2	1,300	10,000	10,000	<0.0056	<0.0055	<0.0048	<0.0053	<0.0064	<0.007	<0.0058	<0.0052	<0.0054	<0.0066	<0.0061	<0.0067	<0.0068	<0.0052	<0.0056	<0.0050	<0.0040	<0.0051	<0.0063	<0.0050	<0.0051	<0.0067
acetone	67-64-1	10,000	10,000	10,000	<0.028	<0.027	**0.056**	<0.026	<0.032	0.023J	<0.029	<0.026	**0.064**	0.021J	<0.030	<0.033	<0.034	<0.026	<0.028	<0.025	**0.026**	<0.026	<0.031	<0.025	<0.026	<0.033
trans-1,2-dichloroethene	156-60-5	4,400	10,000	10,000	<0.0017	<0.0016	<0.0014	<0.0016	<0.0019	<0.0021	<0.0017	<0.0016	<0.0016	<0.0020	<0.0018	<0.0020	<0.002	<0.0016	<0.0017	<0.0015	<0.0012	<0.0015	<0.0019	<0.0015	<0.0015	<0.0020
methyl acetate	79-20-9	10,000	10,000	10,000	<0.0044	<0.0044	<0.0038	<0.0042	<0.0051	<0.0056	<0.0046	<0.0041	**0.0074**	<0.0053	<0.0048	<0.0054	0.0018J	<0.0042	<0.0044	<0.0040	<0.0032	<0.0041	<0.0050	<0.0040	<0.0041	<0.0053
methyl tertiary butyl ether (MTBE)	1634-04-4	1,700	8,500	9,800	<0.0022	<0.0022	<0.0019	<0.0021	<0.0026	<0.0028	<0.0023	<0.0021	<0.0022	<0.0026	<0.0024	<0.0027	<0.0027	<0.0021	<0.0022	<0.0020	<0.0016	<0.0020	<0.0025	<0.0020	<0.0020	<0.0027
1,1-dichloroethane	75-34-3	280	1,400	1,600	<0.0011	<0.0011	<0.00095	<0.001	<0.0013	<0.0014	<0.0012	<0.001	<0.0011	<0.0013	<0.0012	<0.0013	<0.0014	<0.0010	<0.0011	0.00014J	0.00053J	<0.0010	<0.0012	<0.0010	<0.0010	<0.0013
cis-1,2-dichloroethene	156-59-2	440	6,400	10,000	<0.0011	<0.0011	<0.00095	<0.001	<0.0013	<0.0014	<0.0012	<0.001	<0.0011	<0.0013	<0.0012	<0.0013	<0.0014	<0.0010	<0.0011	<0.00099	<0.00079	<0.0010	<0.0012	<0.0010	<0.0010	<0.0013
1,2-dichloroethene, total	540-59-0	-	-	-	<0.0011	<0.0011	<0.00095	<0.001	<0.0013	<0.0014	<0.0012	<0.001	<0.0011	<0.0013	<0.0012	<0.0013	<0.0014	<0.0010	<0.0011	<0.00099	<0.00079	<0.0010	<0.0012	<0.0010	<0.0010	<0.0013
cyclohexane	110-82-7	10,000	10,000	10,000	<0.011	<0.011	<0.0095	<0.010	<0.013	<0.014	<0.012	<0.010	0.0012J	<0.013	<0.012	<0.013	<0.014	<0.010	<0.011	<0.0099	<0.0079	<0.010	<0.012	<0.010	<0.010	<0.013
bromochloromethane	74-97-5	760	3,200	3,600	<0.0022	<0.0022	<0.0019	<0.0021	<0.0026	<0.0028	<0.0023	<0.0021	<0.0022	<0.0026	<0.0024	<0.0027	<0.0027	<0.0021	<0.0022	<0.0020	<0.0016	<0.0020	<0.0025	<0.0020	<0.0020	<0.0027
chloroform	67-66-3	19	96	110	0.00018J	0.00017J	0.00016J	0.00040J	0.00031JB	<0.0021	0.00025JB	0.00023JB	0.00024JB	0.00026JB	0.00022JB	0.00030JB	0.00030JB	0.00020JB	0.00019JB	0.00018JB	0.00015JB	<0.0015	<0.0019	<0.0015	<0.0015	<0.0020
carbon tetrachloride	56-23-5	75	370	430	<0.0011	<0.0011	<0.00095	<0.001	<0.0013	<0.0014	<0.0012	<0.001	<0.0011	<0.0013	<0.0012	<0.0013	<0.0014	<0.0010	<0.0011	<0.00099	<0.00079	<0.0010	<0.0012	<0.0010	<0.0010	<0.0013
1,1,1-trichloroethane	71-55-6	10,000	10,000	10,000	<0.00056	<0.00055	<0.00048	<0.00053	<0.00064	<0.0007	<0.00058	<0.00052	<0.00054	<0.00066	<0.00061	<0.00067	<0.00068	<0.00052	<0.00056	<0.0005	<0.00040	<0.00051	<0.00063	<0.00050	<0.00051	<0.00067
2-butanone	78-93-3	10,000	10,000	10,000	<0.011	<0.011	<0.0095	<0.010	<0.013	0.0056J	<0.012	<0.010	**0.020**	<0.013	<0.012	<0.013	<0.014	<0.010	<0.011	<0.0099	0.0064J	<0.010	<0.012	<0.010	<0.010	<0.013
benzene	71-43-2	57	280	330	<0.00056	<0.00055	<0.00048	<0.00053	<0.00064	0.00061J	<0.00058	<0.00052	**0.0024**	0.00027J	<0.00061	<0.00067	<0.00068	<0.00052	<0.00056	**0.0011**	**0.0035**	<0.00051	<0.00063	<0.00050	<0.00051	<0.00067
1,2-dichloroethane	107-06-02	17	85	98	<0.0011	<0.0011	<0.00095	<0.001	<0.0013	<0.0014	<0.0012	<0.001	<0.0011	<0.0013	<0.0012	<0.0013	<0.0014	<0.0010	<0.0011	<0.00099	<0.00079	<0.0010	<0.0012	<0.0010	<0.0010	<0.0013
methyl cyclohexane	108-87-2	-	-	-	<0.0044	<0.0044	<0.0038	<0.0042	<0.0051	<0.0056	<0.0046	<0.0041	**0.0048**	0.0024J	<0.0048	<0.0054	<0.0054	<0.0042	<0.0044	<0.0040	0.0013J	<0.0041	<0.0050	<0.0040	<0.0041	<0.0053
trichloroethene	79-01-6	38	160	180	<0.00056	<0.00055	<0.00048	<0.00053	<0.00064	<0.0007	<0.00058	<0.00052	<0.00054	<0.00066	<0.00061	<0.00067	<0.00068	<0.00052	<0.00056	<0.00050	<0.00040	<0.00051	<0.00063	<0.00050	<0.00051	<0.00067
1,2-dichloropropane	78-87-5	0.12	0.6	0.69	<0.0011	<0.0011	<0.00095	<0.001	<0.0013	<0.0014	<0.0012	<0.001	<0.0011	<0.0013	<0.0012	<0.0013	<0.0014	<0.0010	<0.0011	<0.00099	<0.00079	<0.0010	<0.0012	<0.0010	<0.0010	<0.0013
bromodichloromethane	75-27-4	12	60	69	<0.00056	<0.00055	<0.00048	<0.00053	<0.00064	<0.0007	<0.00058	<0.00052	<0.00054	<0.00066	<0.00061	<0.00067	<0.00068	<0.00052	<0.00056	<0.0005	<0.0004	<0.00051	<0.00063	<0.00050	<0.00051	<0.00067
1,4-dioxane	123-91-1	89	440	510	<0.089	<0.087	<0.076	<0.084	<0.10	<0.11	<0.092	<0.083	<0.087	<0.10	<0.097	<0.11	<0.11	<0.084	<0.089	<0.079	<0.063	<0.082	<0.10	<0.080	<0.082	<0.11
cis-1,3-dichloropropene	10061-01-5	-	-	-	<0.00056	<0.00055	<0.00048	<0.00053	<0.00064	<0.0007	<0.00058	<0.00052	<0.00054	<0.00066	<0.00061	<0.00067	<0.00068	<0.00052	<0.00056	<0.0005	<0.00040	<0.00051	<0.00063	<0.00050	<0.00051	<0.00067
toluene	108-88-3	10,000	10,000	10,000	<0.0011	<0.0011	<0.00095	<0.001	<0.0013	<0.0014	<0.0012	<0.0010	**0.0022**	<0.0013	<0.0012	<0.0013	<0.0014	<0.0010	<0.0011	0.00071J	**0.0014**	<0.0010	<0.0012	<0.0010	<0.0010	<0.0013
4-methyl-2-pentanone	108-10-1	10,000	10,000	10,000	<0.011	<0.011	<0.0095	<0.010	<0.013	<0.014	<0.012	<0.010	<0.011	<0.013	<0.012	<0.013	<0.014	<0.010	<0.011	<0.0099	<0.0079	<0.010	<0.012	<0.010	<0.010	<0.013
tetrachloroethene	127-18-4	760	3,200	3,600	<0.00056	<0.00055	<0.00048	<0.00053	<0.00064	0.00032J	<0.00058	<0.00052	<0.00054	<0.00066	<0.00061	<0.00067	<0.00068	<0.00052	<0.00056	<0.00050	<0.00040	<0.00051	<0.00063	<0.00050	<0.00051	<0.00067
trans-1,3-dichloropropene	10061-02-6	-	-	-	<0.0011	<0.0011	<0.00095	<0.0010	<0.0013	<0.0014	<0.0012	<0.0010	<0.0011	<0.0013	<0.0012	<0.0013	<0.0014	<0.0010	<0.0011	<0.00099	<0.00079	<0.0010	<0.0012	<0.0010	<0.0010	<0.0013
1,3-dichloropropene, total	542-75-6	110	550	640	<0.00056	<0.00055	<0.00048	<0.00053	<0.00064	<0.0007	<0.00058	<0.00052	<0.00054	<0.00066	<0.00061	<0.00067	<0.00068	<0.00052	<0.00056	<0.0005	<0.0004	<0.00051	<0.00063	<0.00050	<0.00051	<0.00067
1,1,2-trichloroethane	79-00-5	3.8	16	18	<0.0011	<0.0011	<0.00095	<0.0010	<0.0013	<0.0014	<0.0012	<0.0010	<0.0011	<0.0013	<0.0012	<0.0013	<0.0014	<0.0010	<0.0011	<0.00099	<0.00079	<0.0010	<0.0012	<0.0010	<0.0010	<0.0013
dibromochloromethane	124-48-1	220	1,100	10,000	<0.0011	<0.0011	<0.00095	<0.0010	<0.0013	<0.0014	<0.0012	<0.0010	<0.0011	<0.0013	<0.0012	<0.0013	<0.0014	<0.0010	<0.0011	<0.00099	<0.00079	<0.0010	<0.0012	<0.0010	<0.0010	<0.0013
1,2-dibromoethane	106-93-4	0.74	3.7	4.2	<0.00056	<0.00055	<0.00048	<0.00053	<0.00064	<0.0007	<0.00058	<0.00052	<0.00054	<0.00066	<0.00061	<0.00067	<0.00068	<0.00052	<0.00056	<0.00050	<0.00040	<0.00051	<0.00063	<0.00050	<0.00051	<0.00067
2-hexanone	591-78-6	570	2,400	2,700	<0.011	<0.011	<0.0095	<0.010	<0.013	<0.014	<0.012	<0.010	<0.011	<0.013	<0.012	<0.013	<0.014	<0.010	<0.011	<0.0099	<0.0079	<0.010	<0.012	<0.010	<0.010	<0.013
chlorobenzene	108-90-7	950	3,900	4,500	<0.00056	<0.00055	<0.00048	<0.00053	<0.00064	<0.0007	<0.00058	<0.00052	<0.00054	<0.00066	<0.00061	<0.00067	<0.00068	<0.00052	<0.00056	<0.00050	<0.0004	<0.00051	<0.00063	<0.00050	<0.00051	<0.00067
ethylbenzene	100-41-4	180	880	1,000	<0.0011	<0.0011	<0.00095	<0.001	<0.0013	0.00057J	<0.0012	<0.0010	**0.0017**	<0.0013	<0.0012	<0.0013	<0.0014	<0.0010	<0.0011	0.00024J	0.00042J	<0.0010	<0.0012	<0.0010	<0.0010	<0.0013
p/m-xylene	108-38-3/106-42-3	-	-	-	<0.0022	<0.0022	<0.0019	<0.0021	<0.0026	0.0010J	<0.0023	<0.0021	**0.0046**	<0.0026	<0.0024	<0.0027	<0.0027	<0.0021	<0.0022	<0.0020	0.00044J	<0.0020	<0.0025	<0.0020	<0.0020	<0.0027
o-xylene	95-47-6	-	-	-	<0.0011	<0.0011	<0.00095	<0.001	<0.0013	0.00047J	<0.0012	<0.0010	**0.0011**	<0.0013	<0.0012	<0.0013	<0.0014	<0.0010	<0.0011	<0.00099	0.00027J	<0.0010	<0.0012	<0.0010	<0.0010	<0.0013
xylenes, total	1330-20-7	1,900	7,900	9,100	<0.0011	<0.0011	<0.00095	<0.001	<0.0013	0.0015J	<0.0012	<0.0010	**0.0057**	<0.0013	<0.0012	<0.0013	<0.0014	<0.0010	<0.0011	<0.00099	0.00071J	<0.0010	<0.0012	<0.0010	<0.0010	<0.0013
styrene	100-42-5	10,000	10,000	10,000	<0.0011	<0.0011	<0.00095	<0.001	<0.0013	<0.0014	<0.0012	<0.0010	<0.0011	<0.0013	<0.0012	<0.0013	<0.0014	<0.0010	<0.0011	<0.00099	<0.00079	<0.0010	<0.0012	<0.0010	<0.0010	<0.0013

Appendix D2(b): Direct Contact MSCs Compared to Soil Analytical Results - Volatile Organic Compounds

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Direct Contact Residential	Direct Contact Non-Residential Surface Soil	Direct Contact Non-Residential Subsurface Soil	FROG-SS-101 (0-2)	FROG-SS-101 (3-5)	FROG-SS-102 (0-2)	FROG-SS-102 (19-21)	FROG-SS-103 (0-2)	FROG-SS-103 (28-30)	FROG-SS-104 (0-2)	FROG-SS-104 (10-11.5)	FROG-SS-105 (1-3)	FROG-SS-105 (13-15)	FROG-SS-108 (1-3)	FROG-SS-108 (5.5-7.5)	FROG-SS-DUP-101	FROG-SS-109 (2.5-4.5)	FROG-SS-109 (8-10)	FROG-SS-110 (1.5-3.5)	FROG-SS-110 (5-7)	FROG-SS-111 (0-2)	FROG-SS-111 (10-11)	FROG-SS-112 (0-2)	FROG-SS-112 (7-9)	FROG-SS-115 (0-2)
bromoform	75-25-2	400	2,000	2,300	<0.0044	<0.0044	<0.0038	<0.0042	<0.0051	<0.0056	<0.0046	<0.0041	<0.0044	<0.0053	<0.0048	<0.0054	<0.0054	<0.0042	<0.0044	<0.0040	<0.0032	<0.0041	<0.0050	<0.0040	<0.0041	<0.0053
isopropylbenzene	98-82-8	7,600	10,000	10,000	<0.0011	<0.0011	<0.00095	<0.0010	<0.0013	0.00042J	<0.0012	<0.0010	0.00044J	0.00055J	<0.0012	<0.0013	<0.0014	<0.0010	<0.0011	<0.00099	<0.00079	<0.0010	<0.0012	<0.0010	<0.0010	<0.0013
1,1,2,2-tetrachloroethane	79-34-5	7.6	38	44	<0.00056	<0.00055	<0.00048	<0.00053	<0.00064	<0.0007	<0.00058	<0.00052	<0.00054	<0.00066	<0.00061	<0.00067	<0.00068	<0.00052	<0.00056	<0.00050	<0.0004	<0.00051	<0.00063	<0.00050	<0.00051	<0.00067
1,3-dichlorobenzene	541-73-1	10,000	10,000	10,000	<0.0022	<0.0022	<0.0019	<0.0021	<0.0026	<0.0028	<0.0023	<0.0021	<0.0022	<0.0026	<0.0024	<0.0027	<0.0027	<0.0021	<0.0022	<0.0020	<0.0016	<0.0020	<0.0025	<0.0020	<0.0020	<0.0027
1,4-dichlorobenzene	106-46-7	40	200	230	<0.0022	<0.0022	<0.0019	<0.0021	<0.0026	<0.0028	<0.0023	<0.0021	<0.0022	<0.0026	<0.0024	<0.0027	<0.0027	<0.0021	<0.0022	<0.0020	<0.0016	<0.0020	<0.0025	<0.0020	<0.0020	<0.0027
1,2-dichlorobenzene	95-50-1	3,800	10,000	10,000	<0.0022	<0.0022	<0.0019	<0.0021	<0.0026	<0.0028	<0.0023	<0.0021	<0.0022	<0.0026	<0.0024	<0.0027	<0.0027	<0.0021	<0.0022	<0.0020	<0.0016	<0.0020	<0.0025	<0.0020	<0.0020	<0.0027
1,2-dibromo-3-chloropropane	96-12-8	0.029	0.37	0.42	<0.0033	<0.0033	<0.0028	<0.0032	<0.0038	<0.0042	<0.0034	<0.0031	<0.0033	<0.0040	<0.0036	<0.0040	<0.0041	<0.0031	<0.0033	<0.0030	<0.0024	<0.0031	<0.0038	<0.0030	<0.0031	<0.0040
1,2,4-trichlorobenzene	120-82-1	39	160	190	<0.0022	<0.0022	<0.0019	<0.0021	<0.0026	<0.0028	<0.0023	<0.0021	<0.0022	<0.0026	<0.0024	<0.0027	<0.0027	<0.0021	<0.0022	<0.0020	<0.0016	<0.0020	<0.0025	<0.0020	<0.0020	<0.0027
1,2,3-trichlorobenzene	87-61-6	-	-	-	<0.0022	<0.0022	<0.0019	<0.0021	<0.0026	<0.0028	<0.0023	<0.0021	<0.0022	<0.0026	<0.0024	<0.0027	<0.0027	<0.0021	<0.0022	<0.0020	<0.0016	<0.0020	<0.0025	<0.0020	<0.0020	<0.0027

Appendix D2(b): Direct Contact MSCs Compared to Soil Analytical Results - Volatile Organic Compounds

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Direct Contact Residential	Direct Contact Non-Residential Surface Soil	Direct Contact Non-Residential Subsurface Soil	FROG-SS-115 (6.5-8.5)	FROG-SS-116 (0-2)	FROG-SS-116 (18.5-20.5)	FROG-SS-117 (0-2)	FROG-SS-DUP-103	FROG-SS-117 (11-13)	FROG-SS-118 (0-2)	FROG-SS-118 (10-12)	FROG-SS-DUP-102	FROG-SS-119 (0-0.5)	FROG-SS-119 (0.5-1)	FROG-SS-120 (0-2)	FROG-SS-120 (2-3.5)	FROG-SS-121 (0-2)	FROG-SS-121 (20-21.5)	FROG-SS-122 (1.5-3.5)	FROG-SS-122 (30-32)	FROG-SS-123 (1-3)	FROG-SS-123 (17-19)	FROG-SS-DUP-104	FROG-SS-127 (FLOOR)
Volatile Organic Compounds																									
dichlorodifluoromethane	75-71-8	1,900	8000	9100	<0.014	<0.0097	<0.011	<0.011	<0.010	<0.0097	<0.011	<0.014	<0.011	<0.0080	<0.0097	<0.010	<0.0095	<0.010	<0.012	<0.010	<0.012	<0.0097	<0.011	<0.010	<0.0064
chloromethane	74-87-3	250	1,200	1400	<0.0057	<0.0039	<0.0042	<0.0043	<0.0041	<0.0039	<0.0044	<0.0058	<0.0046	<0.0032	<0.0039	<0.0042	<0.0038	<0.0041	<0.005	<0.0042	<0.0049	<0.0039	<0.0043	<0.0041	<0.0026
vinyl chloride	75-01-4	0.93	61	290	<0.0014	<0.00097	<0.0011	<0.0011	<0.0010	<0.00097	<0.0011	<0.0014	<0.0011	<0.0008	<0.00097	<0.0010	<0.00095	<0.0010	<0.0012	<0.0010	<0.0012	<0.00097	<0.0011	<0.0010	<0.00064
bromomethane	74-83-9	95	400	460	<0.0028	<0.0019	<0.0021	<0.0021	<0.0020	<0.0019	<0.0022	<0.0029	<0.0023	<0.0016	<0.0019	<0.0021	<0.0019	<0.0021	<0.0025	<0.0021	<0.0024	<0.0019	<0.0022	<0.0020	<0.0013
chloroethane	75-00-3	10,000	10,000	10,000	<0.0028	<0.0019	<0.0021	<0.0021	<0.0020	<0.0019	<0.0022	<0.0029	<0.0023	<0.0016	<0.0019	<0.0021	<0.0019	<0.0021	<0.0025	<0.0021	<0.0024	<0.0019	<0.0022	<0.0020	<0.0013
trichlorofluoromethane	75-69-4	10,000	10,000	10,000	<0.0057	<0.0039	<0.0042	<0.0043	<0.0041	<0.0039	<0.0044	<0.0058	<0.0046	<0.0032	<0.0039	<0.0042	<0.0038	<0.0041	<0.005	<0.0042	<0.0049	<0.0039	<0.0043	<0.0041	<0.0026
1,1-dichloroethene	75-35-4	3,800	10,000	10,000	<0.0014	<0.00097	<0.0011	<0.0011	<0.0010	<0.00097	<0.0011	<0.0014	<0.0011	<0.0008	<0.00097	<0.0010	<0.00095	<0.0010	<0.0012	<0.0010	<0.0012	<0.00097	<0.0011	<0.0010	<0.00064
carbon disulfide	75-15-0	10,000	10,000	10,000	<0.014	<0.0097	<0.011	<0.011	<0.010	<0.0097	<0.011	<0.014	<0.011	<0.008	<0.0097	<0.010	<0.0095	<0.010	<0.012	<0.010	<0.012	<0.0097	<0.011	<0.010	<0.0064
1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	10,000	10,000	10,000	<0.0057	<0.0039	<0.0042	<0.0043	<0.0041	<0.0039	<0.0044	<0.0058	<0.0046	<0.0032	<0.0039	<0.0042	<0.0038	<0.0041	<0.005	<0.0042	<0.0049	<0.0039	<0.0043	<0.0041	<0.0026
methylene chloride	75-09-2	1,300	10,000	10,000	<0.0071	<0.0049	<0.0053	<0.0053	<0.0051	<0.0048	<0.0055	<0.0072	<0.0057	<0.0040	<0.0048	<0.0052	<0.0047	<0.0052	<0.0063	<0.0053	<0.0061	<0.0048	<0.0054	<0.0051	<0.0032
acetone	67-64-1	10,000	10,000	10,000	<0.036	<0.024	<0.027	<0.027	<0.025	<0.024	<0.028	<0.036	<0.028	<0.020	0.00077J	<0.026	0.022J	<0.026	<0.031	0.024J	<0.031	<0.024	0.017J	<0.026	**0.030**
trans-1,2-dichloroethene	156-60-5	4,400	10,000	10,000	<0.0021	<0.0015	<0.0016	<0.0016	<0.0015	<0.0014	<0.0017	<0.0022	<0.0017	<0.0012	<0.0014	<0.0016	<0.0014	<0.0015	<0.0019	<0.0016	<0.0018	<0.0014	<0.0016	<0.0015	<0.00096
methyl acetate	79-20-9	10,000	10,000	10,000	<0.0057	<0.0039	<0.0042	<0.0043	<0.0041	<0.0039	<0.0044	<0.0058	<0.0046	<0.0032	<0.0039	<0.0042	<0.0038	<0.0041	<0.005	<0.0042	<0.0049	<0.0039	<0.0043	<0.0041	<0.0026
methyl tertiary butyl ether (MTBE)	1634-04-4	1,700	8,500	9,800	<0.0028	<0.0019	<0.0021	<0.0021	<0.0020	<0.0019	<0.0022	<0.0029	<0.0023	<0.0016	<0.0019	<0.0021	<0.0019	<0.0021	<0.0025	<0.0021	<0.0024	<0.0019	<0.0022	<0.0020	<0.0013
1,1-dichloroethane	75-34-3	280	1,400	1,600	<0.0014	<0.00097	<0.0011	<0.0011	<0.0010	<0.00097	<0.0011	<0.0014	<0.0011	<0.00080	<0.00097	<0.0010	<0.00095	<0.0010	<0.0012	<0.0010	<0.0012	<0.00097	<0.0011	<0.0010	<0.00064
cis-1,2-dichloroethene	156-59-2	440	6,400	10,000	<0.0014	<0.00097	<0.0011	<0.0011	<0.0010	<0.00097	<0.0011	<0.0014	<0.0011	<0.00080	<0.00097	<0.0010	<0.00095	<0.0010	<0.0012	<0.0010	<0.0012	<0.00097	<0.0011	<0.0010	<0.00064
1,2-dichloroethene, total	540-59-0	-	-	-	<0.0014	<0.00097	<0.0011	<0.0011	<0.0010	<0.00097	<0.0011	<0.0014	<0.0011	<0.00080	<0.00097	<0.0010	<0.00095	<0.0010	<0.0012	<0.0010	<0.0012	<0.00097	<0.0011	<0.0010	<0.00064
cyclohexane	110-82-7	10,000	10,000	10,000	<0.014	<0.0097	<0.011	<0.011	<0.010	<0.0097	<0.011	<0.014	<0.011	<0.0080	<0.0097	<0.010	<0.0095	<0.010	<0.012	<0.010	<0.012	<0.0097	<0.011	0.00073J	<0.0064
bromochloromethane	74-97-5	760	3,200	3,600	<0.0028	<0.0019	<0.0021	<0.0021	<0.0020	<0.0019	<0.0022	<0.0029	<0.0023	<0.0016	<0.0019	<0.0021	<0.0019	<0.0021	<0.0025	<0.0021	<0.0024	<0.0019	<0.0022	<0.0020	<0.0013
chloroform	67-66-3	19	96	110	0.00026J	0.00017J	<0.0016	0.00021J	0.00023J	0.00026J	<0.0017	<0.0022	0.00021J	0.00023J	<0.0014	<0.0016	<0.0014	<0.0015	<0.0019	0.00030J	0.00034J	0.00027J	0.00030J	0.00026J	0.00014J
carbon tetrachloride	56-23-5	75	370	430	<0.0014	<0.00097	<0.0011	<0.0011	<0.0010	<0.00097	<0.0011	<0.0014	<0.0011	<0.00080	<0.00097	<0.001	<0.00095	<0.0010	<0.0012	<0.0010	<0.0012	<0.00097	<0.0011	<0.0010	<0.00064
1,1,1-trichloroethane	71-55-6	10,000	10,000	10,000	<0.00071	<0.00049	<0.00053	<0.00053	<0.00051	<0.00048	<0.00055	<0.00072	<0.00057	<0.00040	<0.00048	<0.00052	<0.00047	<0.00052	<0.00063	<0.00053	<0.00061	<0.00048	<0.00054	<0.00051	<0.00032
2-butanone	78-93-3	10,000	10,000	10,000	<0.014	<0.0097	<0.011	<0.011	<0.010	<0.0097	<0.011	<0.014	<0.011	<0.0080	<0.0097	<0.010	<0.0095	<0.010	<0.012	0.0076J	<0.012	<0.0097	<0.011	<0.010	**0.014**
benzene	71-43-2	57	280	330	<0.00071	0.00016J	0.00020J	0.00029J	<0.00051	<0.00048	<0.00055	<0.00072	<0.00057	<0.00040	<0.00048	<0.00052	0.00025J	<0.00052	<0.00063	<0.00053	<0.00061	<0.00048	<0.00054	<0.00051	0.00012J
1,2-dichloroethane	107-06-02	17	85	98	<0.0014	<0.00097	<0.0011	<0.0011	<0.0010	<0.00097	<0.0011	<0.0014	<0.0011	<0.00080	<0.00097	<0.0010	<0.00095	<0.0010	<0.0012	<0.0010	<0.0012	<0.00097	<0.0011	<0.0010	<0.00064
methyl cyclohexane	108-87-2	-	-	-	<0.0057	<0.0039	<0.0042	<0.0043	<0.0041	<0.0039	<0.0044	<0.0058	<0.0046	<0.0032	<0.0039	<0.0042	<0.0038	<0.0041	<0.005	<0.0042	<0.0049	<0.0039	<0.0043	**0.0047**	<0.0026
trichloroethene	79-01-6	38	160	180	<0.00071	<0.00049	<0.00053	<0.00053	<0.00051	<0.00048	<0.00055	<0.00072	<0.00057	<0.00040	<0.00048	<0.00052	<0.00047	<0.00052	<0.00063	<0.00053	<0.00061	<0.00048	<0.00054	<0.00051	<0.00032
1,2-dichloropropane	78-87-5	0.12	0.6	0.69	<0.0014	<0.00097	<0.0011	<0.0011	<0.0010	<0.00097	<0.0011	<0.0014	<0.0011	<0.00080	<0.00097	<0.0010	<0.00095	<0.0010	<0.0012	<0.0010	<0.0012	<0.00097	<0.0011	<0.0010	<0.00064
bromodichloromethane	75-27-4	12	60	69	<0.00071	<0.00049	<0.00053	<0.00053	<0.00051	<0.00048	<0.00055	<0.00072	<0.00057	<0.00040	<0.00048	<0.00052	<0.00047	<0.00052	<0.00063	<0.00053	<0.00061	<0.00048	<0.00054	<0.00051	<0.00032
1,4-dioxane	123-91-1	89	440	510	<0.11	<0.078	<0.085	<0.085	<0.081	<0.078	<0.089	<0.12	<0.091	<0.064	<0.077	<0.083	<0.076	<0.082	<0.10	<0.084	<0.098	<0.077	<0.087	<0.082	<0.051
cis-1,3-dichloropropene	10061-01-5	-	-	-	<0.00071	<0.00049	<0.00053	<0.00053	<0.00051	<0.00048	<0.00055	<0.00072	<0.00057	<0.00040	<0.00048	<0.00052	<0.00047	<0.00052	<0.00063	<0.00053	<0.00061	<0.00048	<0.00054	<0.00051	<0.00032
toluene	108-88-3	10,000	10,000	10,000	<0.0014	<0.00097	<0.0011	<0.0011	<0.0010	<0.00097	<0.0011	<0.0014	<0.0011	<0.00080	<0.00097	<0.0010	<0.00095	<0.0010	<0.0012	<0.0010	<0.0012	<0.00097	<0.0011	<0.0010	<0.00064
4-methyl-2-pentanone	108-10-1	10,000	10,000	10,000	<0.014	<0.0097	<0.011	<0.011	<0.010	<0.0097	<0.011	<0.014	<0.011	<0.0080	<0.0097	<0.010	<0.0095	<0.010	<0.012	<0.010	<0.012	<0.0097	<0.011	<0.010	0.0017J
tetrachloroethene	127-18-4	760	3,200	3,600	<0.00071	<0.00049	<0.00053	<0.00053	<0.00051	<0.00048	<0.00055	<0.00072	<0.00057	<0.00040	<0.00048	<0.00052	<0.00047	<0.00052	<0.00063	**0.0014**	<0.00061	<0.00048	<0.00054	<0.00051	<0.00032
trans-1,3-dichloropropene	10061-02-6	-	-	-	<0.0014	<0.00097	<0.0011	<0.0011	<0.0010	<0.00097	<0.0011	<0.0014	<0.0011	<0.00080	<0.00097	<0.0010	<0.00095	<0.0010	<0.0012	<0.0010	<0.0012	<0.00097	<0.0011	<0.0010	<0.00064
1,3-dichloropropene, total	542-75-6	110	550	640	<0.00071	<0.00049	<0.00053	<0.00053	<0.00051	<0.00048	<0.00055	<0.00072	<0.00057	<0.00040	<0.00048	<0.00052	<0.00047	<0.00052	<0.00063	<0.00053	<0.00061	<0.00048	<0.00054	<0.00051	<0.00032
1,1,2-trichloroethane	79-00-5	3.8	16	18	<0.0014	<0.00097	<0.0011	<0.0011	<0.0010	<0.00097	<0.0011	<0.0014	<0.0011	<0.00080	<0.00097	<0.0010	<0.00095	<0.0010	<0.0012	<0.0010	<0.0012	<0.00097	<0.0011	<0.0010	<0.00064
dibromochloromethane	124-48-1	220	1,100	10,000	<0.0014	<0.00097	<0.0011	<0.0011	<0.0010	<0.00097	<0.0011	<0.0014	<0.0011	<0.00080	<0.00097	<0.0010	<0.00095	<0.0010	<0.0012	<0.0010	<0.0012	<0.00097	<0.0011	<0.0010	<0.00064
1,2-dibromoethane	106-93-4	0.74	3.7	4.2	<0.00071	<0.00049	<0.00053	<0.00053	<0.00051	<0.00048	<0.00055	<0.00072	<0.00057	<0.00040	<0.00048	<0.00052	<0.00047	<0.00052	<0.00063	<0.00053	<0.00061	<0.00048	<0.00054	<0.00051	<0.00032
2-hexanone	591-78-6	570	2,400	2,700	<0.014	<0.0097	<0.011	<0.011	<0.010	<0.0097	<0.011	<0.014	<0.011	<0.0080	<0.0097	<0.010	<0.0095	<0.010	<0.012	<0.01	<0.012	<0.0097	<0.011	<0.010	<0.0064
chlorobenzene	108-90-7	950	3,900	4,500	<0.00071	<0.00049	<0.00053	<0.00053	<0.00051	<0.00048	<0.00055	<0.00072	<0.00057	<0.00040	<0.00048	<0.00052	<0.00047	<0.00052	<0.00063	<0.00053	<0.00061	<0.00048	<0.00054	<0.00051	<0.00032
ethylbenzene	100-41-4	180	880	1,000	<0.0014	<0.00097	<0.0011	<0.0011	<0.0010	<0.00097	<0.0011	<0.0014	<0.0011	<0.00080	<0.00097	<0.0010	0.00017J	<0.0010	<0.0012	<0.0010	<0.0012	<0.00097	<0.0011	<0.0010	<0.00064
p/m-xylene	108-38-3/106-42-3	-	-	-	<0.0028	<0.0019	<0.0021	<0.0021	<0.0020	<0.0019	<0.0022	<0.0029	<0.0023	<0.0016	<0.0019	<0.0021	<0.0019	<0.0021	<0.0025	<0.0021	<0.0024	<0.0019	<0.0022	<0.0020	<0.0013
o-xylene	95-47-6	-	-	-	<0.0014	<0.00097	<0.0011	<0.0011	<0.0010	<0.00097	<0.0011	<0.0014	<0.0011	<0.00080	<0.00097	<0.0010	<0.00095	<0.0010	<0.0012	<0.0010	<0.0012	<0.00097	<0.0011	<0.0010	<0.00064
xylenes, total	1330-20-7	1,900	7,900	9,100	<0.0014	<0.00097	<0.0011	<0.0011	<0.0010	<0.00097	<0.0011	<0.0014	<0.0011	<0.00080	<0.00097	<0.0010	<0.00095	<0.0010	<0.0012	<0.0010	<0.0012	<0.00097	<0.0011	<0.0010	<0.00064
styrene	100-42-5	10,000	10,000	10,000	<0.0014	<0.00097	<0.0011	<0.0011	<0.0010	<0.00097	<0.0011	<0.0014	<0.0011	<0.00080	<0.00097	<0.0010	<0.00095	<0.0010	<0.0012	<0.0010	<0.0012	<0.00097	<0.0011	<0.0010	<0.00064

Appendix D2(b): Direct Contact MSCs Compared to Soil Analytical Results - Volatile Organic Compounds

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Direct Contact Residential	Direct Contact Non-Residential Surface Soil	Direct Contact Non-Residential Subsurface Soil	FROG-SS-115 (6.5-8.5)	FROG-SS-116 (0-2)	FROG-SS-116 (18.5-20.5)	FROG-SS-117 (0-2)	FROG-SS-DUP-103	FROG-SS-117 (11-13)	FROG-SS-118 (0-2)	FROG-SS-118 (10-12)	FROG-SS-DUP-102	FROG-SS-119 (0-0.5)	FROG-SS-119 (0.5-1)	FROG-SS-120 (0-2)	FROG-SS-120 (2-3.5)	FROG-SS-121 (0-2)	FROG-SS-121 (20-21.5)	FROG-SS-122 (1.5-3.5)	FROG-SS-122 (30-32)	FROG-SS-123 (1-3)	FROG-SS-123 (17-19)	FROG-SS-DUP-104	FROG-SS-127 (FLOOR)
bromoform	75-25-2	400	2,000	2,300	<0.0057	<0.0039	<0.0042	<0.0043	<0.0041	<0.0039	<0.0044	<0.0058	<0.0046	<0.0032	<0.0039	<0.0042	<0.0038	<0.0041	<0.0050	<0.0042	<0.0049	<0.0039	<0.0043	<0.0041	<0.0026
isopropylbenzene	98-82-8	7,600	10,000	10,000	<0.0014	<0.00097	<0.0011	<0.0011	<0.0010	<0.00097	<0.0011	<0.0014	<0.0011	<0.00080	<0.00097	<0.0010	<0.00095	<0.0010	<0.0012	<0.0010	<0.0012	<0.00097	<0.0011	**0.0025**	<0.00064
1,1,2,2-tetrachloroethane	79-34-5	7.6	38	44	<0.00071	<0.00049	<0.00053	<0.00053	<0.00051	<0.00048	<0.00055	<0.00072	<0.00057	<0.00040	<0.00048	<0.00052	<0.00047	<0.00052	<0.00063	<0.00053	<0.00061	<0.00048	<0.00054	<0.00051	<0.00032
1,3-dichlorobenzene	541-73-1	10,000	10,000	10,000	<0.0028	<0.0019	<0.0021	<0.0021	<0.0020	<0.0019	<0.0022	<0.0029	<0.0023	<0.0016	<0.0019	<0.0021	<0.0019	<0.0021	<0.0025	<0.0021	<0.0024	<0.0019	<0.0022	<0.0020	<0.0013
1,4-dichlorobenzene	106-46-7	40	200	230	<0.0028	<0.0019	<0.0021	<0.0021	<0.0020	<0.0019	<0.0022	<0.0029	<0.0023	<0.0016	<0.0019	<0.0021	<0.0019	<0.0021	<0.0025	<0.0021	<0.0024	<0.0019	<0.0022	<0.0020	<0.0013
1,2-dichlorobenzene	95-50-1	3,800	10,000	10,000	<0.0028	<0.0019	<0.0021	<0.0021	<0.0020	<0.0019	<0.0022	<0.0029	<0.0023	<0.0016	<0.0019	<0.0021	<0.0019	<0.0021	<0.0025	<0.0021	<0.0024	<0.0019	<0.0022	<0.0020	<0.0013
1,2-dibromo-3-chloropropane	96-12-8	0.029	0.37	0.42	<0.0043	<0.0029	<0.0032	<0.0032	<0.0030	<0.0029	<0.0033	<0.0043	<0.0034	<0.0024	<0.0029	<0.0031	<0.0028	<0.0031	<0.0038	<0.0032	<0.0037	<0.0029	<0.0032	<0.0031	<0.0019
1,2,4-trichlorobenzene	120-82-1	39	160	190	<0.0028	<0.0019	<0.0021	<0.0021	<0.0020	<0.0019	<0.0022	<0.0029	<0.0023	<0.0016	<0.0019	<0.0021	<0.0019	<0.0021	<0.0025	<0.0021	<0.0024	<0.0019	<0.0022	<0.0020	<0.0013
1,2,3-trichlorobenzene	87-61-6	-	-	-	<0.0028	<0.0019	<0.0021	<0.0021	<0.0020	<0.0019	<0.0022	<0.0029	<0.0023	<0.0016	<0.0019	<0.0021	<0.0019	<0.0021	<0.0025	<0.0021	<0.0024	<0.0019	<0.0022	<0.0020	<0.0013

Appendix D2(c): Direct Contact MSCs Compared to Soil Analytical Results - Semivolatile Organic Compounds

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations			FROG-SS-101 (0-2)	FROG-SS-101 (3-5)	FROG-SS-102 (0-2)	FROG-SS-102 (19-21)	FROG-SS-103 (0-2)	FROG-SS-103 (28-30)	FROG-SS-104 (0-2)	FROG-SS-104 (10-11.5)	FROG-SS-105 (1-3)	FROG-SS-105 (13-15)	FROG-SS-108 (1-3)	FROG-SS-108 (5.5-7.5)	FROG-SS-DUP-101	FROG-SS-109 (2.5-4.5)	FROG-SS-109 (8-10)	FROG-SS-110 (1.5-3.5)	FROG-SS-110 (5-7)	FROG-SS-111 (0-2)	FROG-SS-111 (10-11)	FROG-SS-112 (0-2)	FROG-SS-112 (7-9)
		Direct Contact Residential	Direct Contact Non-Residential Surface Soil	Direct Contact Non-Residential Subsurface Soil																					
Semivolatile Organic Compounds																									
benzaldehyde	100-52-7	-	-	-	<0.25	<0.27	<0.24	<0.27	0.076J	<0.31	<0.27	<0.27	<0.25	<0.29	<0.28	<0.28	<0.27	<0.26	<0.27	**0.23**	<0.23	<0.24	<0.27	<0.23	<0.24
phenol	108-95-2	3,800	16,000	18,000	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.2	<0.17	0.033J	<0.18	<0.20	<0.18	<0.18
bis(2-chloroethyl)ether	111-44-4	1.3	6.7	7.6	*<0.014	*<0.015	*<0.013	*<0.015	*<0.014	*<0.017	*<0.015	*<0.015	*<0.014	*<0.016	*<0.016	*<0.016	*<0.015	*<0.015	*<0.015	*<0.013	*<0.013	*<0.014	*<0.015	*<0.013	*<0.013
2-chlorophenol	95-57-8	1,100	10,000	10,000	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18
2-methylphenol	95-48-7	11,000	160,000	190,000	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18
bis(2-chloroisopropyl)ether	108-60-1	44	220	250	<0.23	<0.25	<0.22	<0.24	<0.23	<0.28	<0.25	<0.24	<0.22	<0.27	<0.25	<0.25	<0.25	<0.24	<0.24	<0.21	<0.20	<0.22	<0.25	<0.21	<0.21
acetophenone	98-86-2	10,000	10,000	10,000	<0.19	<0.21	<0.18	<0.20	0.043J	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	0.13J	**0.18**	<0.18	<0.20	<0.18	<0.18
1,4-dioxane	123-91-1	89	440	510	<0.029	<0.031	<0.027	<0.031	<0.028	<0.035	<0.031	<0.030	<0.028	<0.033	<0.032	<0.032	<0.031	<0.030	<0.030	<0.026	<0.026	<0.028	<0.031	<0.027	<0.027
n-nitrosodi-n-propylamine	621-64-7	0.22	1.1	1.3	<0.018*	*<0.020	*<0.017	*<0.020	<0.018*	*<0.022	*<0.020	*<0.019	*<0.018	*<0.021	*<0.020	*<0.020	*<0.020	*<0.019	*<0.019	*<0.016	*<0.016	*<0.018	*<0.020	*<0.017	*<0.017
3-methylphenol / 4-methylphenol	108-39-4 / 106-44-5	10,000 / 1,100	10000 / 16,000	10,000 / 190,000	<0.28	<0.30	<0.26	<0.30	<0.27	<0.34	<0.30	<0.29	<0.27	<0.32	<0.30	<0.30	<0.30	<0.29	<0.29	<0.25	<0.25	<0.26	<0.30	<0.26	<0.26
hexachloroethane	67-72-1	46	230	270	<0.15	<0.16	<0.14	<0.16	<0.15	<0.19	<0.16	<0.16	<0.15	<0.18	<0.17	<0.17	<0.16	<0.16	<0.16	<0.14	<0.14	<0.15	<0.16	<0.14	<0.14
nitrobenzene	98-95-3	11	55	63	*<0.028	*<0.031	*<0.027	*<0.030	*<0.028	*<0.035	*<0.031	*<0.030	*<0.028	*<0.033	*<0.031	*<0.031	*<0.030	*<0.029	*<0.030	*<0.025	*<0.025	*<0.027	*<0.030	*<0.026	*<0.026
isophorone	78-59-1	10,000	10,000	10,000	<0.17	<0.19	<0.16	<0.18	<0.17	<0.21	<0.19	<0.18	<0.17	<0.20	<0.19	<0.19	<0.18	<0.18	<0.18	<0.16	<0.15	<0.16	<0.18	<0.16	<0.16
2-nitrophenol	88-75-5	1,800	26,000	190,000	<0.42	<0.45	<0.39	<0.44	<0.41	<0.51	<0.45	<0.44	<0.41	<0.48	<0.46	<0.45	<0.44	<0.43	<0.44	<0.37	<0.37	<0.4	<0.44	<0.38	<0.39
2,4-dimethylphenol	105-67-9	4,400	10,000	10,000	<0.19	<0.21	<0.18	<0.2	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18
bis (2-chloroethoxy)methane	111-91-1	660	9,600	10,000	<0.21	<0.22	<0.20	<0.22	<0.2	<0.25	<0.22	<0.22	<0.2	<0.24	<0.23	<0.23	<0.22	<0.22	<0.22	<0.19	<0.18	<0.20	<0.22	<0.19	<0.19
2,4-dichlorophenol	120-83-2	660	9,600	190,000	<0.17	<0.19	<0.16	<0.18	<0.17	<0.21	<0.19	<0.18	<0.17	<0.20	<0.19	<0.19	<0.18	<0.18	<0.18	<0.16	<0.15	<0.16	<0.18	<0.16	<0.16
naphthalene	91-20-3	13	66	77	**0.038**	<0.041	**0.055**	<0.041	**0.057**	<0.047	<0.041	<0.040	**0.14**	<0.044	<0.042	<0.042	<0.041	<0.04	<0.041	**0.48**	**0.51**	<0.037	<0.041	**0.10**	<0.036
4-chloroaniline	106-47-8	93	460	190,000	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18
hexachlorobutadiene	87-68-3	220	1,200	10,000	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18
caprolactam	105-60-2	-	-	-	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18
p-chloro-m-cresol	59-50-7	22,000	190,000	190,000	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18
2-methylnapthalene	91-57-6	57	240	270	0.046J	<0.25	0.13J	<0.24	0.037J	<0.28	<0.25	<0.24	**0.24**	<0.27	<0.25	<0.25	<0.25	<0.24	<0.24	**0.25**	**0.22**	<0.22	<0.25	0.10J	0.036J
hexachlorocyclopentadiene	77-47-4	1,300	10,000	10,000	<0.55	<0.59	<0.52	<0.59	<0.54	<0.67	<0.59	<0.58	<0.54	<0.63	<0.60	<0.6	<0.59	<0.57	<0.58	<0.49	<0.49	<0.53	<0.59	<0.51	<0.51
1,2,4,5-tetrachlorobenzene	95-94-3	66	960	190,000	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.2	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18
2,4,6-trichlorophenol	88-06-2	220	3,200	190,000	<0.12	<0.12	<0.11	<0.12	<0.11	<0.14	<0.12	<0.12	<0.11	<0.13	<0.13	<0.13	<0.12	<0.12	<0.12	<0.10	<0.10	<0.11	<0.12	<0.11	<0.11
2,4,5-trichlorophenol	95-95-4	22,000	190,000	190,000	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18
1,1-biphenyl	92-52-4	8.2	34	40	*<0.025	*<0.027	*<0.024	*<0.027	0.030J	*<0.030	*<0.027	*<0.026	0.046J	*<0.029	*<0.027	*<0.027	*<0.027	*<0.026	*<0.026	**0.53**	0.38J	*<0.024	*<0.027	0.024J	*<0.023
2-chloronaphthalene	91-58-7	18,000	190,000	190,000	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18
2-nitroaniline	88-74-4	0.95	3.9	4.5	*<0.037	*<0.040	*<0.035	*<0.040	*<0.036	*<0.045	*<0.040	*<0.039	*<0.036	*<0.043	*<0.041	*<0.040	*<0.040	*<0.038	*<0.039	*<0.033	*<0.033	*<0.036	*<0.040	*<0.034	*<0.034
dimethyl phthalate	131-11-3	-	-	-	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18
2,6-dinitrotoluene	606-20-2	12	61	190,000	*<0.033	*<0.036	*<0.031	*<0.035	*<0.032	*<0.040	*<0.035	*<0.035	*<0.032	*<0.038	*<0.036	*<0.036	*<0.035	*<0.034	*<0.035	*<0.030	*<0.029	*<0.032	*<0.035	*<0.030	*<0.031
acenaphthylene	208-96-8	13,000	190,000	190,000	0.042J	<0.16	0.033J	<0.16	<0.15	<0.19	<0.16	<0.16	0.051J	<0.18	<0.17	<0.17	<0.16	0.086J	<0.16	<0.14	<0.14	<0.15	<0.16	0.10J	<0.14
3-nitroaniline	99-09-2	-	-	-	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18
acenaphthene	83-32-9	13,000	190,000	190,000	<0.15	<0.16	<0.14	<0.16	<0.15	<0.19	<0.16	<0.16	0.034J	<0.18	<0.17	<0.17	<0.16	<0.16	<0.16	0.021J	<0.14	<0.15	<0.16	**0.16**	<0.14
2,4-dinitrophenol	51-28-5	440	6,400	190,000	<0.92	<0.99	<0.87	<0.98	<0.9	<1.1	<0.99	<0.97	<0.90	<1.1	<1.0	<1.0	<0.98	<0.96	<0.98	<0.83	<0.82	<0.88	<0.98	<0.85	<0.86
4-nitrophenol	100-02-7	1,800	26,000	190,000	<0.27	<0.29	<0.26	<0.29	<0.26	<0.33	<0.29	<0.28	<0.26	<0.31	<0.30	<0.29	<0.29	<0.28	<0.28	<0.24	<0.24	<0.26	<0.29	<0.25	<0.25
2,4-dinitrotoluene	121-14-2	60	290	190,000	<0.19	<0.21	<0.18	<0.20	<0.19	*<0.047	<0.21	<0.20	<0.19	*<0.044	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18
dibenzofuran	132-64-9	220	3,200	190,000	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	0.050J	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	0.042J	0.035J	<0.18	<0.20	0.11J	<0.18
2,3,4,6-tetrachlorophenol	58-90-2	6,600	96,000	190,000	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18
diethyl phthalate	84-66-2	10,000	10,000	10,000	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18
fluorene	86-73-7	8,800	130,000	190,000	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	0.059J	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	0.026J	0.020J	<0.18	<0.20	0.15J	<0.18
4-chlorophenyl phenyl ether	7005-72-3	-	-	-	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18
4-nitroaniline	100-01-6	880	4,600	190,000	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18
4,6-dinitro-o-cresol	534-52-1	18	260	190,000	*<0.092	*<0.099	*<0.087	*<0.098	*<0.090	*<0.11	*<0.099	*<0.097	*<0.090	*<0.11	*<0.10	*<0.10	*<0.098	*<0.096	*<0.098	*<0.083	*<0.082	*<0.088	*<0.098	*<0.085	*<0.086

Appendix D2(c): Direct Contact MSCs Compared to Soil Analytical Results - Semivolatile Organic Compounds

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Direct Contact Residential	Direct Contact Non-Residential Surface Soil	Direct Contact Non-Residential Subsurface Soil	FROG-SS-101 (0-2)	FROG-SS-101 (3-5)	FROG-SS-102 (0-2)	FROG-SS-102 (19-21)	FROG-SS-103 (0-2)	FROG-SS-103 (28-30)	FROG-SS-104 (0-2)	FROG-SS-104 (10-11.5)	FROG-SS-105 (1-3)	FROG-SS-105 (13-15)	FROG-SS-108 (1-3)	FROG-SS-108 (5.5-7.5)	FROG-SS-DUP-101	FROG-SS-109 (2.5-4.5)	FROG-SS-109 (8-10)	FROG-SS-110 (1.5-3.5)	FROG-SS-110 (5-7)	FROG-SS-111 (0-2)	FROG-SS-111 (10-11)	FROG-SS-112 (0-2)	FROG-SS-112 (7-9)
n-nitrosodiphenylamine / diphenylamine	86-30-6 / 122-39-4	170 / 22,000	860 / 190,000	990 / 190,000	<0.15	<0.16	<0.14	<0.16	<0.15	<0.19	<0.16	<0.16	<0.15	<0.18	<0.17	<0.17	<0.16	<0.16	<0.16	<0.14	<0.14	<0.15	<0.16	<0.14	<0.14
4-bromophenyl phenyl ether	101-55-3	-	-	-	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18
hexachlorobenzene	118-74-1	12	57	190,000	<0.12	<0.12	<0.11	<0.12	<0.11	<0.14	<0.12	<0.12	<0.11	<0.13	<0.13	<0.13	<0.12	<0.12	<0.12	<0.10	<0.10	<0.11	<0.12	<0.11	<0.11
pentachlorophenol	87-86-5	47	230	190,000	<0.15	<0.16	<0.14	<0.16	<0.15	<0.19	<0.16	<0.16	<0.15	<0.18	<0.17	<0.17	<0.16	<0.16	<0.16	<0.14	<0.14	<0.15	<0.16	<0.14	<0.14
atrazine	1912-24-9	81	400	190,000	<0.15	<0.16	<0.14	<0.16	<0.15	<0.19	<0.16	<0.16	<0.15	<0.18	<0.17	<0.17	<0.16	<0.16	<0.16	<0.14	<0.14	<0.15	<0.16	<0.14	<0.14
phenanthrene	85-01-8	66,000	190,000	190,000	**0.17**	<0.12	**0.16**	<0.12	0.057J	<0.14	<0.12	<0.12	**0.42**	<0.13	0.040J	<0.13	<0.12	**0.13**	<0.12	**0.27**	**0.22**	0.024J	0.025J	**2.2**	<0.11
anthracene	120-12-7	66,000	190,000	190,000	0.042J	<0.12	<0.11	<0.12	<0.11	<0.14	<0.12	<0.12	0.071J	<0.13	<0.13	<0.13	<0.12	<0.12	<0.12	<0.10	<0.10	<0.11	<0.12	**0.49**	<0.11
carbazole	86-74-8	930	4,600	190,000	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	0.046J	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	0.021J	0.021J	<0.18	<0.20	**0.35**	<0.18
di-n-butyl phthalate	84-74-2	10,000	10,000	10,000	<0.19	<0.21	<0.18	<0.20	0.11J	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	0.041J	<0.20	<0.20	0.061J	0.034J	<0.18	<0.20	<0.18	<0.18
fluoranthene	206-44-0	8,800	130,000	190,000	**0.22**	<0.12	**0.22**	<0.12	0.097J	<0.14	<0.12	<0.12	**0.47**	<0.13	0.046J	<0.13	<0.12	**0.24**	<0.12	0.052J	0.056J	0.030J	0.048J	**3.4**	<0.11
pyrene	129-00-0	6,600	96,000	190,000	**0.23**	<0.12	**0.21**	<0.12	0.087J	<0.14	<0.12	<0.12	**0.41**	<0.13	0.041J	<0.13	<0.12	**0.30**	<0.12	0.046J	0.049J	0.028J	0.044J	**2.7**	<0.11
butyl benzyl phthalate	85-68-7	9,800	10,000	10,000	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18
3-3'-dichlorobenzidine	91-94-1	41	200	190,000	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18
benzo(a)anthracene	56-55-3	6.1	130	190,000	**0.12**	<0.12	**0.11**	<0.12	0.050J	<0.14	<0.12	<0.12	**0.22**	<0.13	0.033J	<0.13	<0.12	**0.13**	<0.12	<0.10	0.025J	<0.11	0.030J	**1.6**	<0.11
chrysene	218-01-9	35	760	190,000	**0.19**	<0.12	**0.14**	<0.12	0.072J	<0.14	<0.12	<0.12	**0.30**	<0.13	0.034J	<0.13	<0.12	**0.17**	<0.12	0.035J	0.040J	0.025J	0.026J	**1.7**	<0.11
bis(2-ethylhexyl) phthalate	117-81-7	1,300	6,500	10,000	<0.19	<0.21	<0.18	<0.20	0.077J	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	0.074J	<0.17	<0.18	<0.20	<0.18	<0.18
di-n-octyl phthalate	117-84-0	2,200	10,000	10,000	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18
benzo(b)fluoranthene	205-99-2	3.5	76	190,000	**0.18**	<0.12	**0.16**	<0.12	0.098J	<0.14	<0.12	<0.12	**0.33**	<0.13	<0.13	<0.13	<0.12	**0.17**	<0.12	<0.10	<0.10	<0.11	<0.12	**2.3**	<0.11
benzo(k)fluoranthene	207-08-9	3.5	76	190,000	0.047J	<0.12	0.046J	<0.12	<0.11	<0.14	<0.12	<0.12	0.076J	<0.13	<0.13	<0.13	<0.12	0.054J	<0.12	<0.10	<0.10	<0.11	<0.12	**0.67**	<0.11
benzo(a)pyrene	50-32-8	4.2	91	190,000	0.11J	<0.16	0.11J	<0.16	0.063J	<0.19	<0.16	<0.16	**0.21**	<0.18	<0.17	<0.17	<0.16	0.14J	<0.16	<0.14	<0.14	<0.15	<0.16	**1.7**	<0.14
indeno (1,2,3-cd) pyrene	193-39-5	3.5	76	190,000	0.098J	<0.16	0.086J	<0.16	0.051J	<0.19	<0.16	<0.16	0.14J	<0.18	<0.17	<0.17	<0.16	0.088J	<0.16	<0.14	<0.14	<0.15	<0.16	**1.2**	<0.14
dibenzo(a,h)anthracene	53-70-3	1	22	190,000	0.025J	<0.12	0.023J	<0.12	<0.11	<0.14	<0.12	<0.12	0.034J	<0.13	<0.13	<0.13	<0.12	<0.12	<0.12	<0.10	<0.10	<0.11	<0.12	**0.23**	<0.11
benzo(g,h,i)perylene	191-24-2	13,000	190,000	190,000	0.10J	<0.16	0.085J	<0.16	0.057J	<0.19	<0.16	<0.16	**0.15**	<0.18	<0.17	<0.17	<0.16	0.10J	<0.16	<0.14	<0.14	<0.15	<0.16	**1.0**	<0.14

Appendix D2(c): Direct Contact MSCs Compared to Soil Analytical Results - Semivolatile Organic Compounds

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Direct Contact Residential	Direct Contact Non-Residential Surface Soil	Direct Contact Non-Residential Subsurface Soil	FROG-SS-115 (0-2)	FROG-SS-115 (6.5-8.5)	FROG-SS-116 (0-2)	FROG-SS-116 (18.5-20.5)	FROG-SS-117 (0-2)	FROG-SS-DUP-103	FROG-SS-117 (11-13)	FROG-SS-118 (0-2)	FROG-SS-118 (10-12)	FROG-SS-DUP-102	FROG-SS-119 (0-0.5)	FROG-SS-119 (0.5-1)	FROG-SS-120 (0-2)	FROG-SS-120 (2-3.5)	FROG-SS-121 (0-2)	FROG-SS-121 (20-21.5)	FROG-SS-122 (1.5-3.5)	FROG-SS-122 (30-32)	FROG-SS-123 (1-3)	FROG-SS-123 (17-19)	FROG-SS-DUP-104
Semivolatile Organic Compounds																									
benzaldehyde	100-52-7	-	-	-	<0.24	<0.27	<0.23	<0.27	<0.23	<0.23	<0.25	<0.26	<0.27	<0.27	<1.2	<0.24	<0.24	<0.24	<0.24	<0.26	<0.26	<0.33	<0.26	<0.27	<0.27
phenol	108-95-2	3,800	16,000	18,000	<0.18	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	0.037	<0.19	0.043J	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20
bis(2-chloroethyl)ether	111-44-4	1.3	6.7	7.6	*<0.013	*<0.015	*<0.013	*<0.015	*<0.013	*<0.013	*<0.014	*<0.015	*<0.015	*<0.015	*<0.067	*<0.014	*<0.013	*<0.014	*<0.013	*<0.014	*<0.014	*<0.018	*<0.014	*<0.015	*<0.015
2-chlorophenol	95-57-8	1,100	10,000	10,000	<0.18	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20
2-methylphenol	95-48-7	11,000	160,000	190,000	<0.18	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20
bis(2-chloroisopropyl)ether	108-60-1	44	220	250	<0.21	<0.24	<0.21	<0.24	<0.21	<0.21	<0.23	<0.24	<0.25	<0.25	<1.1	<0.22	<0.22	<0.22	<0.22	<0.24	<0.23	<0.30	<0.23	<0.24	<0.24
acetophenone	98-86-2	10,000	10,000	10,000	<0.18	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20
1,4-dioxane	123-91-1	89	440	510	<0.027	<0.031	<0.026	<0.030	<0.026	<0.026	<0.028	<0.030	<0.031	<0.031	<0.14	<0.028	<0.027	<0.028	<0.027	<0.030	<0.029	<0.037	<0.029	<0.030	<0.030
n-nitrosodi-n-propylamine	621-64-7	0.22	1.1	1.3	*<0.017	*<0.020	*<0.017	*<0.019	*<0.017	*<0.016	*<0.018	*<0.019	*<0.020	*<0.020	*<0.086	*<0.018	*<0.017	*<0.018	*<0.017	*<0.019	*<0.018	*<0.024	*<0.018	*<0.019	*<0.019
3-methylphenol / 4-methylphenol	108-39-4 / 106-44-5	10,000 / 1,100	10000 / 16,000	10,000 / 190,000	<0.26	<0.29	<0.25	<0.29	<0.25	<0.25	<0.27	<0.29	<0.30	<0.30	<1.3	<0.27	0.029J	<0.27	0.071J	<0.28	<0.28	<0.36	<0.28	<0.29	<0.29
hexachloroethane	67-72-1	46	230	270	<0.14	<0.16	<0.14	<0.16	<0.14	<0.14	<0.15	<0.16	<0.16	<0.16	*<0.14	<0.15	<0.14	<0.15	<0.14	<0.16	<0.16	<0.20	<0.16	<0.16	<0.16
nitrobenzene	98-95-3	11	55	63	*<0.026	*<0.030	*<0.026	*<0.030	*<0.026	*<0.026	*<0.028	*<0.030	*<0.030	*<0.031	*<0.13	*<0.027	*<0.027	*<0.028	*<0.027	*<0.029	*<0.029	*<0.037	*<0.029	*<0.030	*<0.030
isophorone	78-59-1	10,000	10,000	10,000	<0.16	<0.18	<0.16	<0.18	<0.16	<0.16	<0.17	<0.18	<0.18	<0.19	<0.81	<0.17	<0.16	<0.17	<0.16	<0.18	<0.17	<0.22	<0.17	<0.18	<0.18
2-nitrophenol	88-75-5	1,800	26,000	190,000	<0.39	<0.44	<0.38	<0.44	<0.38	<0.37	<0.41	<0.43	<0.44	<0.45	<1.9	<0.40	<0.39	<0.4	<0.39	<0.42	<0.42	<0.53	<0.42	<0.44	<0.44
2,4-dimethylphenol	105-67-9	4,400	10,000	10,000	<0.18	<0.20	<0.18	<0.20	<0.17	<0.17	<0.16	<0.20	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20
bis (2-chloroethoxy)methane	111-91-1	660	9,600	10,000	<0.19	<0.22	<0.19	<0.22	<0.19	<0.19	<0.20	<0.22	<0.22	<0.22	<0.97	<0.20	<0.20	<0.2	<0.19	<0.21	<0.21	<0.27	<0.21	<0.22	<0.22
2,4-dichlorophenol	120-83-2	660	9,600	190,000	<0.16	<0.18	<0.16	<0.18	<0.16	<0.16	<0.17	<0.18	<0.18	<0.19	<0.81	<0.17	<0.16	<0.17	<0.16	<0.18	<0.17	<0.22	<0.17	<0.18	<0.18
naphthalene	91-20-3	13	66	77	**0.37**	<0.041	**0.059**	**0.14**	<0.035	**0.035**	<0.038	<0.04	<0.041	<0.041	<0.18	<0.037	**0.13**	**0.069**	**0.48**	<0.039	<0.039	<0.049	<0.039	<0.040	<0.041
4-chloroaniline	106-47-8	93	460	190,000	<0.18	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	*<0.16	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20
hexachlorobutadiene	87-68-3	220	1,200	10,000	<0.18	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20
caprolactam	105-60-2	-	-	-	<0.18	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20
p-chloro-m-cresol	59-50-7	22,000	190,000	190,000	<0.18	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20
2-methylnapthalene	91-57-6	57	240	270	**0.49**	<0.24	0.13J	0.13J	<0.21	0.045J	<0.23	<0.24	<0.25	<0.25	<1.1	<0.22	0.13J	0.093J	**0.49**	<0.24	<0.23	<0.30	<0.23	<0.24	<0.24
hexachlorocyclopentadiene	77-47-4	1,300	10,000	10,000	<0.51	<0.58	<0.50	<0.58	<0.50	<0.49	<0.54	<0.57	<0.59	<0.59	<2.6	<0.53	<0.52	<0.53	<0.52	<0.56	<0.55	<0.71	<0.56	<0.58	<0.58
1,2,4,5-tetrachlorobenzene	95-94-3	66	960	190,000	<0.18	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20
2,4,6-trichlorophenol	88-06-2	220	3,200	190,000	<0.11	<0.12	<0.10	<0.12	<0.10	<0.10	<0.11	<0.12	<0.12	<0.12	<0.54	<0.11	<0.11	<0.11	<0.11	<0.12	<0.12	<0.15	<0.12	<0.12	<0.12
2,4,5-trichlorophenol	95-95-4	22,000	190,000	190,000	<0.18	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20
1,1-biphenyl	92-52-4	8.2	34	40	0.052J	*<0.027	0.023J	*<0.026	*<0.023	*<0.022	*<0.024	*<0.026	*<0.027	*<0.027	*<0.12	*<0.024	0.031J	*<0.024	0.071J	*<0.026	*<0.025	*<0.032	*<0.025	*<0.026	*<0.026
2-chloronaphthalene	91-58-7	18,000	190,000	190,000	<0.18	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20
2-nitroaniline	88-74-4	0.95	3.9	4.5	*<0.034	*<0.039	*<0.034	*<0.039	*<0.034	*<0.033	*<0.036	*<0.038	*<0.040	*<0.040	*<0.17	*<0.036	*<0.035	*<0.036	*<0.035	*<0.038	*<0.037	*<0.048	*<0.037	*<0.039	*<0.039
dimethyl phthalate	131-11-3	-	-	-	<0.18	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20
2,6-dinitrotoluene	606-20-2	12	61	190,000	*<0.031	*<0.035	*<0.030	*<0.035	*<0.030	*<0.030	*<0.032	*<0.034	*<0.034	*<0.036	*<0.15	*<0.032	*<0.031	*<0.032	*<0.031	*<0.034	*<0.033	*<0.042	*<0.033	*<0.035	*<0.035
acenaphthylene	208-96-8	13,000	190,000	190,000	0.11J	<0.16	<0.14	<0.16	<0.14	<0.14	<0.15	<0.16	<0.16	<0.16	<0.72	<0.15	**0.24**	<0.15	**0.49**	<0.16	<0.16	<0.20	<0.16	<0.16	<0.16
3-nitroaniline	99-09-2	-	-	-	<0.18	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.9	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20
acenaphthene	83-32-9	13,000	190,000	190,000	<0.14	<0.16	0.024J	0.027J	<0.14	<0.14	<0.15	<0.16	<0.16	<0.16	<0.72	<0.15	**0.32**	**0.28**	**0.28**	<0.16	<0.16	<0.20	<0.16	<0.16	<0.16
2,4-dinitrophenol	51-28-5	440	6,400	190,000	<0.86	<0.98	<0.84	<0.97	<0.83	<0.83	<0.90	<0.96	<0.98	<0.99	<4.3	<0.89	<0.87	<0.89	<0.86	<0.94	<0.93	<1.2	<0.93	<0.97	<0.98
4-nitrophenol	100-02-7	1,800	26,000	190,000	<0.25	<0.28	<0.25	<0.28	<0.24	<0.24	<0.26	<0.28	<0.29	<0.29	<1.3	<0.26	<0.25	<0.26	<0.25	<0.28	<0.27	<0.35	<0.27	<0.28	<0.28
2,4-dinitrotoluene	121-14-2	60	290	190,000	<0.18	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	*<0.18	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	*<0.049	<0.19	<0.20	<0.20
dibenzofuran	132-64-9	220	3,200	190,000	0.10J	<0.20	0.033J	<0.20	<0.17	0.016J	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	**0.18**	0.099J	**0.35**	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20
2,3,4,6-tetrachlorophenol	58-90-2	6,600	96,000	190,000	<0.18	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20
diethyl phthalate	84-66-2	10,000	10,000	10,000	<0.18	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20
fluorene	86-73-7	8,800	130,000	190,000	0.044J	<0.20	0.020J	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	**0.37**	0.15J	**0.36**	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20
4-chlorophenyl phenyl ether	7005-72-3	-	-	-	<0.18	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20
4-nitroaniline	100-01-6	880	4,600	190,000	<0.18	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20
4,6-dinitro-o-cresol	534-52-1	18	260	190,000	*<0.086	*<0.098	*<0.084	*<0.097	*<0.083	*<0.083	*<0.090	*<0.096	*<0.098	*<0.099	*<0.43	*<0.089	*<0.087	*<0.089	*<0.086	*<0.094	*<0.093	*<0.12	*<0.093	*<0.097	*<0.098

Appendix D2(c): Direct Contact MSCs Compared to Soil Analytical Results - Semivolatile Organic Compounds

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Direct Contact Residential	Direct Contact Non-Residential Surface Soil	Direct Contact Non-Residential Subsurface Soil	FROG-SS-115 (0-2)	FROG-SS-115 (6.5-8.5)	FROG-SS-116 (0-2)	FROG-SS-116 (18.5-20.5)	FROG-SS-117 (0-2)	FROG-SS-DUP-103	FROG-SS-117 (11-13)	FROG-SS-118 (0-2)	FROG-SS-118 (10-12)	FROG-SS-DUP-102	FROG-SS-119 (0-0.5)	FROG-SS-119 (0.5-1)	FROG-SS-120 (0-2)	FROG-SS-120 (2-3.5)	FROG-SS-121 (0-2)	FROG-SS-121 (20-21.5)	FROG-SS-122 (1.5-3.5)	FROG-SS-122 (30-32)	FROG-SS-123 (1-3)	FROG-SS-123 (17-19)	FROG-SS-DUP-104
n-nitrosodiphenylamine / diphenylamine	86-30-6 / 122-39-4	170 / 22,000	860 / 190,000	990 / 190,000	<0.14	<0.16	<0.14	<0.16	<0.14	<0.14	<0.15	<0.16	<0.16	<0.16	<0.72	<0.15	<0.14	<0.15	<0.14	<0.16	<0.16	<0.20	<0.16	<0.16	<0.16
4-bromophenyl phenyl ether	101-55-3	-	-	-	<0.18	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20
hexachlorobenzene	118-74-1	12	57	190,000	<0.11	<0.12	<0.10	<0.12	<0.10	<0.10	<0.11	<0.12	<0.12	<0.12	<0.54	<0.11	<0.11	<0.11	<0.11	<0.12	<0.12	<0.15	<0.12	<0.12	<0.12
pentachlorophenol	87-86-5	47	230	190,000	<0.14	<0.16	<0.14	<0.16	<0.14	<0.14	<0.15	<0.16	<0.16	<0.16	<0.72	<0.15	<0.14	<0.15	<0.14	<0.16	<0.16	<0.20	<0.16	<0.16	<0.16
atrazine	1912-24-9	81	400	190,000	<0.14	<0.16	<0.14	<0.16	<0.14	<0.14	<0.15	<0.16	<0.16	<0.16	*<0.32	<0.15	<0.14	<0.15	<0.14	<0.16	<0.16	<0.20	<0.16	<0.16	<0.16
phenanthrene	85-01-8	66,000	190,000	190,000	**0.46**	<0.12	**0.15**	<0.12	0.070J	0.087J	0.057J	0.025J	<0.12	<0.12	0.13J	<0.11	**5.9**	**1.9**	**5.8**	<0.12	0.025J	<0.15	<0.12	<0.12	<0.12
anthracene	120-12-7	66,000	190,000	190,000	0.090J	<0.12	0.042J	<0.12	<0.10	<0.10	<0.11	<0.12	<0.12	<0.12	<0.54	0.033J	**2.1**	**0.49**	**1.1**	<0.12	<0.12	<0.15	<0.12	<0.12	<0.12
carbazole	86-74-8	930	4,600	190,000	0.030J	<0.20	0.026J	<0.20	0.021J	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	**0.32**	**0.22**	**0.55**	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20
di-n-butyl phthalate	84-74-2	10,000	10,000	10,000	<0.18	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.2	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20
fluoranthene	206-44-0	8,800	130,000	190,000	**0.39**	<0.12	**0.22**	<0.12	**0.12**	**0.12**	0.049J	0.026J	<0.12	<0.12	0.23J	0.10J	**11**	**3.0**	**7.2**	<0.12	0.037J	<0.15	<0.12	<0.12	<0.12
pyrene	129-00-0	6,600	96,000	190,000	**0.48**	<0.12	**0.18**	<0.12	**0.11**	**0.12**	0.040J	0.023J	<0.12	<0.12	0.22J	**0.12**	**9.3**	**2.3**	**6.0**	<0.12	0.039J	<0.15	<0.12	<0.12	<0.12
butyl benzyl phthalate	85-68-7	9,800	10,000	10,000	<0.18	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	.064J	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20
3-3'-dichlorobenzidine	91-94-1	41	200	190,000	<0.18	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20
benzo(a)anthracene	56-55-3	6.1	130	190,000	**0.28**	<0.12	**0.11**	<0.12	0.065J	0.065J	0.024J	<0.12	<0.12	<0.12	0.15J	**0.12**	**6.6**	**1.5**	**3.8**	<0.12	<0.12	<0.15	<0.12	<0.12	<0.12
chrysene	218-01-9	35	760	190,000	**0.4**	<0.12	**0.10**	<0.12	0.070J	0.078J	0.021J	<0.12	<0.12	<0.12	0.18J	**0.17**	**4.8**	**1.3**	**3.6**	<0.12	0.022J	<0.15	<0.12	<0.12	<0.12
bis(2-ethylhexyl) phthalate	117-81-7	1,300	6,500	10,000	<0.18	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.2	<0.21	0.69J	<0.18	**0.20**	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20
di-n-octyl phthalate	117-84-0	2,200	10,000	10,000	<0.18	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	0.81J	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20
benzo(b)fluoranthene	205-99-2	3.5	76	190,000	**0.34**	<0.12	**0.14**	<0.12	0.088J	0.096J	<0.11	<0.12	<0.12	<0.12	0.31J	**0.34**	**9.5**	**2.0**	**5.0**	<0.12	<0.12	<0.15	<0.12	<0.12	<0.12
benzo(k)fluoranthene	207-08-9	3.5	76	190,000	0.10J	<0.12	0.053J	<0.12	<0.10	<0.10	<0.11	<0.12	<0.12	<0.12	<0.54	0.095J	**1.4**	**0.54**	**1.2**	<0.12	<0.12	<0.15	<0.12	<0.12	<0.12
benzo(a)pyrene	50-32-8	4.2	91	190,000	**0.28**	<0.16	0.12J	<0.16	0.064J	0.067J	<0.15	<0.16	<0.16	<0.16	<0.72	**0.21**	**6.7**	**1.5**	**3.7**	<0.16	<0.16	<0.20	<0.16	<0.16	<0.16
indeno (1,2,3-cd) pyrene	193-39-5	3.5	76	190,000	**0.18**	<0.16	0.080J	<0.16	0.045J	0.050J	<0.15	<0.16	<0.16	<0.16	0.16J	**0.18**	**3.8**	**1.0**	**2.5**	<0.16	<0.16	<0.20	<0.16	<0.16	<0.16
dibenzo(a,h)anthracene	53-70-3	1	22	190,000	0.076J	<0.12	<0.10	<0.12	<0.10	<0.10	<0.11	<0.12	<0.12	<0.12	<0.54	0.045J	**0.64**	**0.20**	**0.43**	<0.12	<0.12	<0.15	<0.12	<0.12	<0.12
benzo(g,h,i)perylene	191-24-2	13,000	190,000	190,000	**0.22**	<0.16	0.073J	0.031J	0.044J	0.050J	<0.15	<0.16	<0.16	<0.16	0.23J	**0.21**	**3.3**	**0.90**	**2.4**	<0.16	<0.16	<0.20	<0.16	<0.16	<0.16

Appendix D2(c): Direct Contact MSCs Compared to Soil Analytical Results - Semivolatile Organic Compounds

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Direct Contact Residential	Direct Contact Non-Residential Surface Soil	Direct Contact Non-Residential Subsurface Soil	FROG-SS-124 (FLOOR)	FROG-SS-125 (FLOOR)	FROG-SS-126 (FLOOR)	FROG-SS-DUP-105	FROG-SS-127 (FLOOR)	FROG-SS-212 (5.0-7.0)	FROG-SS-217 (0.0-2.0)	FROG-SS-217 (4.0-5.0)	FROG-SS-217 (9.0-10.0)	FROG-SS-217 (11.0-12.0)	FROG-SS-218 (0.0-2.0)	FROG-SS-218 (4.0-5.0)	FROG-SS-218 (9.0-10.0)	FROG-SS-218 (11.0-12.0)	FROG-SS-219 (0.0-2.0)	FROG-SS-DUP-204	FROG-SS-219 (4.0-5.0)	FROG-SS-219 (5.5-6.5)	FROG-SS-220 (0.0-2.0)	FROG-SS-220 (4.0-5.0)
Semivolatile Organic Compounds																									
benzaldehyde	100-52-7	-	-	-	<0.23	<0.22	0.16J	0.12J	<0.21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
phenol	108-95-2	3,800	16,000	18,000	<0.17	<0.17	0.15J	**0.19**	0.044J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-chloroethyl)ether	111-44-4	1.3	6.7	7.6	*<0.013	*<0.012	*<0.012	*<0.012	*<0.012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-chlorophenol	95-57-8	1,100	10,000	10,000	<0.17	<0.17	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-methylphenol	95-48-7	11,000	160,000	190,000	<0.17	<0.17	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-chloroisopropyl)ether	108-60-1	44	220	250	<0.20	<0.20	<0.2	<0.20	<0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
acetophenone	98-86-2	10,000	10,000	10,000	<0.17	<0.17	0.13J	0.13J	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-dioxane	123-91-1	89	440	510	<0.026	<0.025	<0.025	<0.025	<0.024	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-nitrosodi-n-propylamine	621-64-7	0.22	1.1	1.3	*<0.016	*<0.016	*<0.016	*<0.016	*<0.016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-methylphenol / 4-methylphenol	108-39-4 / 106-44-5	10,000 / 1,100	10000 / 16,000	10,000 / 190,000	<0.25	<0.24	<0.24	<0.24	<0.23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
hexachloroethane	67-72-1	46	230	270	<0.14	<0.13	<0.13	<0.13	<0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
nitrobenzene	98-95-3	11	55	63	*<0.025	*<0.025	*<0.025	*<0.024	*<0.024	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
isophorone	78-59-1	10,000	10,000	10,000	<0.15	<0.15	<0.15	<0.15	<0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-nitrophenol	88-75-5	1,800	26,000	190,000	<0.37	<0.36	<0.36	<0.36	<0.35	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-dimethylphenol	105-67-9	4,400	10,000	10,000	<0.17	<0.17	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis (2-chloroethoxy)methane	111-91-1	660	9,600	10,000	<0.18	<0.18	<0.18	<0.18	<0.18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-dichlorophenol	120-83-2	660	9,600	190,000	<0.15	<0.15	<0.15	<0.15	<0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
naphthalene	91-20-3	13	66	77	**0.46**	**0.045**	**0.51**	**0.18**	0.026J	**13**	**0.10**	**0.049**	<0.041	<0.043	0.11J	0.030J	<0.041	<0.040	<0.18	**0.12**	**0.054**	<0.042	**0.049**	**0.040**
4-chloroaniline	106-47-8	93	460	190,000	<0.17	<0.17	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
hexachlorobutadiene	87-68-3	220	1,200	10,000	<0.17	<0.17	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
caprolactam	105-60-2	-	-	-	<0.17	<0.17	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-chloro-m-cresol	59-50-7	22,000	190,000	190,000	<0.17	<0.17	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-methylnapthalene	91-57-6	57	240	270	0.030J	<0.20	0.064J	0.060J	0.036J	**69**	0.19J	0.038J	<0.25	<0.26	<1.0	0.034J	<0.24	<0.24	<1.0	0.096J	0.068J	<0.25	0.059J	0.052J
hexachlorocyclopentadiene	77-47-4	1,300	10,000	10,000	<0.49	<0.48	<0.48	<0.47	<0.46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4,5-tetrachlorobenzene	95-94-3	66	960	190,000	<0.17	<0.17	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-trichlorophenol	88-06-2	220	3,200	190,000	<0.10	<0.10	<0.10	<0.10	<0.098	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-trichlorophenol	95-95-4	22,000	190,000	190,000	<0.17	<0.17	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-biphenyl	92-52-4	8.2	34	40	*<0.022	*<0.022	<0.077J	0.075J	<0.37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-chloronaphthalene	91-58-7	18,000	190,000	190,000	<0.17	<0.17	<0.17	<0.17	<0.16	<2.6	<0.18	<0.20	<0.20	<0.21	<0.88	<0.19	<0.20	<0.20	<0.88	<0.19	<0.19	<0.21	<0.18	<0.18
2-nitroaniline	88-74-4	0.95	3.9	4.5	*<0.033	*<0.032	*<0.032	*<0.032	*<0.031	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
dimethyl phthalate	131-11-3	-	-	-	<0.17	<0.17	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-dinitrotoluene	606-20-2	12	61	190,000	*<0.029	*<0.028	*<0.029	*<0.028	*<0.028	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
acenaphthylene	208-96-8	13,000	190,000	190,000	<0.14	<0.13	<0.13	<0.13	<0.13	<2.1	<0.14	0.13J	<0.16	<0.17	<0.70	<0.15	<0.16	<0.16	<0.70	0.089J	0.045J	<0.17	0.034J	<0.14
3-nitroaniline	99-09-2	-	-	-	<0.17	<0.17	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
acenaphthene	83-32-9	13,000	190,000	190,000	<0.14	<0.13	<0.13	<0.13	<0.13	**4.7**	0.019J	0.046J	<0.16	<0.17	<0.70	<0.15	<0.16	<0.16	<0.70	<0.15	<0.15	<0.17	<0.14	<0.14
2,4-dinitrophenol	51-28-5	440	6,400	190,000	<0.82	<0.8	<0.80	<0.80	<0.78	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-nitrophenol	100-02-7	1,800	26,000	190,000	<0.24	<0.23	**0.31**	<0.23	<0.23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-dinitrotoluene	121-14-2	60	290	190,000	<0.17	<0.17	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
dibenzofuran	132-64-9	220	3,200	190,000	<0.17	<0.17	<0.17	<0.17	0.015J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,4,6-tetrachlorophenol	58-90-2	6,600	96,000	190,000	<0.17	<0.17	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
diethyl phthalate	84-66-2	10,000	10,000	10,000	<0.17	<0.17	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
fluorene	86-73-7	8,800	130,000	190,000	<0.17	<0.17	<0.17	<0.17	<0.16	**6.7**	0.020J	0.082J	<0.20	<0.21	<0.88	<0.19	<0.20	<0.20	<0.88	0.018J	<0.19	<0.21	0.019J	<0.18
4-chlorophenyl phenyl ether	7005-72-3	-	-	-	<0.17	<0.17	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-nitroaniline	100-01-6	880	4,600	190,000	<0.17	<0.17	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-dinitro-o-cresol	534-52-1	18	260	190,000	*<0.082	*<0.080	*<0.080	*<0.080	*<0.078	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix D2(c): Direct Contact MSCs Compared to Soil Analytical Results - Semivolatile Organic Compounds

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Direct Contact Residential	Direct Contact Non-Residential Surface Soil	Direct Contact Non-Residential Subsurface Soil	FROG-SS-124 (FLOOR)	FROG-SS-125 (FLOOR)	FROG-SS-126 (FLOOR)	FROG-SS-DUP-105	FROG-SS-127 (FLOOR)	FROG-SS-212 (5.0-7.0)	FROG-SS-217 (0.0-2.0)	FROG-SS-217 (4.0-5.0)	FROG-SS-217 (9.0-10.0)	FROG-SS-217 (11.0-12.0)	FROG-SS-218 (0.0-2.0)	FROG-SS-218 (4.0-5.0)	FROG-SS-218 (9.0-10.0)	FROG-SS-218 (11.0-12.0)	FROG-SS-219 (0.0-2.0)	FROG-SS-DUP-204	FROG-SS-219 (4.0-5.0)	FROG-SS-219 (5.5-6.5)	FROG-SS-220 (0.0-2.0)	FROG-SS-220 (4.0-5.0)
n-nitrosodiphenylamine / diphenylamine	86-30-6 / 122-39-4	170 / 22,000	860 / 190,000	990 / 190,000	<0.14	<0.13	<0.13	<0.13	<0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-bromophenyl phenyl ether	101-55-3	-	-	-	<0.17	<0.17	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
hexachlorobenzene	118-74-1	12	57	190,000	<0.10	<0.10	<0.10	<0.10	<0.098	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pentachlorophenol	87-86-5	47	230	190,000	<0.14	<0.13	<0.13	<0.13	<0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
atrazine	1912-24-9	81	400	190,000	<0.14	<0.13	<0.13	<0.13	<0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
phenanthrene	85-01-8	66,000	190,000	190,000	**0.30**	0.058J	**0.53**	**0.54**	0.067J	**10**	**0.24**	**1.2**	<0.12	<0.13	0.13J	0.053J	<0.12	<0.12	0.11J	**0.34**	**0.16**	<0.13	**0.21**	0.074J
anthracene	120-12-7	66,000	190,000	190,000	0.057J	<0.10	0.042J	0.057J	<0.098	1.5J	<0.11	**0.26**	<0.12	<0.13	<0.52	<0.11	<0.12	<0.12	<0.53	0.082J	0.039J	<0.13	0.060J	<0.11
carbazole	86-74-8	930	4,600	190,000	0.059J	<0.17	0.088J	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
di-n-butyl phthalate	84-74-2	10,000	10,000	10,000	<0.17	<0.17	0.054J	<0.17	0.097J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
fluoranthene	206-44-0	8,800	130,000	190,000	**0.47**	0.060J	**0.30**	**0.26**	0.087J	0.56J	0.23	1.0	<0.12	<0.13	0.17J	0.055J	<0.12	<0.12	0.23J	0.63	0.29	<0.13	0.40	0.072J
pyrene	129-00-0	6,600	96,000	190,000	**0.40**	0.052J	**0.22**	**0.20**	0.075J	0.58J	0.20	1.0	<0.12	<0.13	0.18J	0.054J	<0.12	<0.12	0.20J	0.59	0.28	<0.13	0.33	0.058J
butyl benzyl phthalate	85-68-7	9,800	10,000	10,000	<0.17	<0.17	<0.17	0.098J	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-3'-dichlorobenzidine	91-94-1	41	200	190,000	<0.17	<0.17	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(a)anthracene	56-55-3	6.1	130	190,000	**0.19**	<0.10	0.040J	0.047J	0.021J	<1.6	**0.13**	**0.62**	<0.12	<0.13	0.12J	0.049J	<0.12	<0.12	0.16J	**0.47**	**0.19**	<0.13	**0.23**	0.036J
chrysene	218-01-9	35	760	190,000	**0.26**	<0.10	**0.10**	**0.11**	0.049J	<1.6	**0.14**	**0.67**	<0.12	<0.13	0.13J	0.066J	<0.12	<0.12	0.21J	**0.63**	**0.23**	<0.13	**0.22**	0.040J
bis(2-ethylhexyl) phthalate	117-81-7	1,300	6,500	10,000	<0.17	<0.17	<0.17	<0.17	**0.51**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
di-n-octyl phthalate	117-84-0	2,200	10,000	10,000	<0.17	<0.17	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(b)fluoranthene	205-99-2	3.5	76	190,000	**0.29**	<0.10	<0.10	0.050J	<0.098	<1.6	**0.16**	**0.48**	<0.12	<0.13	0.18J	0.083J	<0.12	<0.12	0.33J	**1.0**	**0.28**	<0.13	**0.29**	0.050J
benzo(k)fluoranthene	207-08-9	3.5	76	190,000	**0.10**	<0.10	<0.10	<0.10	<0.098	<1.6	0.061J	**0.15**	<0.12	<0.13	<0.52	<0.11	<0.12	<0.12	<0.53	**0.26**	0.10J	<0.13	0.084J	<0.11
benzo(a)pyrene	50-32-8	4.2	91	190,000	**0.14**	<0.13	<0.13	<0.13	<0.13	<2.1	0.12J	**0.39**	<0.16	<0.17	<0.70	0.050J	<0.16	<0.16	<0.70	**0.44**	**0.20**	<0.17	**0.21**	<0.14
indeno (1,2,3-cd) pyrene	193-39-5	3.5	76	190,000	0.12J	<0.13	<0.13	<0.13	<0.13	<2.1	0.084J	**0.19**	<0.16	<0.17	<0.70	0.040J	<0.16	<0.16	0.13J	**0.43**	0.13J	<0.17	**0.14**	<0.14
dibenzo(a,h)anthracene	53-70-3	1	22	190,000	0.038J	<0.10	<0.10	<0.10	<0.098	*<0.30	0.022J	0.058J	<0.12	<0.13	<0.52	<0.11	<0.12	<0.12	<0.53	**0.15**	0.036J	<0.13	0.038J	<0.11
benzo(g,h,i)perylene	191-24-2	13,000	190,000	190,000	**0.17**	<0.13	<0.13	<0.13	<0.13	<2.1	0.091J	**0.20**	<0.16	<0.17	0.11J	0.048J	<0.16	<0.16	0.16J	**0.60**	**0.15**	<0.17	**0.14**	0.024J

Appendix D2(c): Direct Contact MSCs Compared to Soil Analytical Results - Semivolatile Organic Compounds

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Direct Contact Residential	Direct Contact Non-Residential Surface Soil	Direct Contact Non-Residential Subsurface Soil	FROG-SS-DUP-203	FROG-SS-220 (5.5-6.0)	FROG-SS-221 (0.0-2.0)	FROG-SS-221 (4.0-5.0)	FROG-SS-221 (9.0-10.0)	FROG-SS-221 (14.0-15.0)	FROG-SS-222 (0.0-2.0)	FROG-SS-222 (4.0-4.5)	FROG-SS-222 (9.0-10.0)	FROG-SS-222 (10.5-11.5)	FROG-SS-223 (0.0-2.0)	FROG-SS-223 (4.0-5.0)	FROG-SS-223 (9.0-10.0)	FROG-SS-223 (10.5-11.5)
Semivolatile Organic Compounds																		
benzaldehyde	100-52-7	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
phenol	108-95-2	3,800	16,000	18,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-chloroethyl)ether	111-44-4	1.3	6.7	7.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-chlorophenol	95-57-8	1,100	10,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-methylphenol	95-48-7	11,000	160,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-chloroisopropyl)ether	108-60-1	44	220	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
acetophenone	98-86-2	10,000	10,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-dioxane	123-91-1	89	440	510	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-nitrosodi-n-propylamine	621-64-7	0.22	1.1	1.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-methylphenol / 4-methylphenol	108-39-4 / 106-44-5	10,000 / 1,100	10000 / 16,000	10,000 / 190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
hexachloroethane	67-72-1	46	230	270	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
nitrobenzene	98-95-3	11	55	63	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
isophorone	78-59-1	10,000	10,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-nitrophenol	88-75-5	1,800	26,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-dimethylphenol	105-67-9	4,400	10,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis (2-chloroethoxy)methane	111-91-1	660	9,600	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-dichlorophenol	120-83-2	660	9,600	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
naphthalene	91-20-3	13	66	77	**0.037**	0.028J	**0.093**	**0.064**	<0.040	<0.039	**0.20**	**0.67**	<0.040	<0.043	**0.070**	**0.042**	<0.041	<0.041
4-chloroaniline	106-47-8	93	460	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
hexachlorobutadiene	87-68-3	220	1,200	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
caprolactam	105-60-2	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-chloro-m-cresol	59-50-7	22,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-methylnapthalene	91-57-6	57	240	270	0.045J	<0.23	0.11J	0.054J	<0.24	<0.24	**0.30**	**0.38**	<0.24	<0.26	0.15J	0.048J	<0.24	<0.25
hexachlorocyclopentadiene	77-47-4	1,300	10,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4,5-tetrachlorobenzene	95-94-3	66	960	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-trichlorophenol	88-06-2	220	3,200	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-trichlorophenol	95-95-4	22,000	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-biphenyl	92-52-4	8.2	34	40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-chloronaphthalene	91-58-7	18,000	190,000	190,000	<0.18	<0.19	<0.17	<0.18	<0.20	<0.20	<0.18	<0.18	<0.20	<0.22	<0.17	<0.18	<0.20	<0.21
2-nitroaniline	88-74-4	0.95	3.9	4.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
dimethyl phthalate	131-11-3	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-dinitrotoluene	606-20-2	12	61	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
acenaphthylene	208-96-8	13,000	190,000	190,000	<0.15	0.031J	0.11J	0.034J	<0.16	<0.16	0.045J	0.047J	<0.16	<0.17	<0.13	<0.14	<0.16	<0.16
3-nitroaniline	99-09-2	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
acenaphthene	83-32-9	13,000	190,000	190,000	<0.15	<0.16	0.065J	0.071J	<0.16	<0.16	0.10J	**2.2**	<0.16	<0.17	0.056J	<0.14	<0.16	<0.16
2,4-dinitrophenol	51-28-5	440	6,400	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-nitrophenol	100-02-7	1,800	26,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-dinitrotoluene	121-14-2	60	290	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
dibenzofuran	132-64-9	220	3,200	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,4,6-tetrachlorophenol	58-90-2	6,600	96,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
diethyl phthalate	84-66-2	10,000	10,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
fluorene	86-73-7	8,800	130,000	190,000	<0.18	<0.19	0.072J	0.070J	<0.20	<0.20	0.11J	**1.1**	<0.20	<0.22	0.044J	<0.18	<0.20	<0.21
4-chlorophenyl phenyl ether	7005-72-3	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-nitroaniline	100-01-6	880	4,600	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-dinitro-o-cresol	534-52-1	18	260	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix D2(c): Direct Contact MSCs Compared to Soil Analytical Results - Semivolatile Organic Compounds

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Direct Contact Residential	Direct Contact Non-Residential Surface Soil	Direct Contact Non-Residential Subsurface Soil	FROG-SS-DUP-203	FROG-SS-220 (5.5-6.0)	FROG-SS-221 (0.0-2.0)	FROG-SS-221 (4.0-5.0)	FROG-SS-221 (9.0-10.0)	FROG-SS-221 (14.0-15.0)	FROG-SS-222 (0.0-2.0)	FROG-SS-222 (4.0-4.5)	FROG-SS-222 (9.0-10.0)	FROG-SS-222 (10.5-11.5)	FROG-SS-223 (0.0-2.0)	FROG-SS-223 (4.0-5.0)	FROG-SS-223 (9.0-10.0)	FROG-SS-223 (10.5-11.5)
n-nitrosodiphenylamine / diphenylamine	86-30-6 / 122-39-4	170 / 22,000	860 / 190,000	990 / 190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-bromophenyl phenyl ether	101-55-3	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
hexachlorobenzene	118-74-1	12	57	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pentachlorophenol	87-86-5	47	230	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
atrazine	1912-24-9	81	400	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
phenanthrene	85-01-8	66,000	190,000	190,000	0.067J	**0.12**	**0.88**	**0.74**	<0.12	<0.12	**0.79**	**11**	<0.12	0.037J	**0.13**	**0.12**	<0.12	<0.12
anthracene	120-12-7	66,000	190,000	190,000	<0.11	<0.12	**0.22**	**0.22**	<0.12	<0.12	**0.15**	**2.1**	<0.12	<0.13	<0.10	<0.10	<0.12	<0.12
carbazole	86-74-8	930	4,600	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
di-n-butyl phthalate	84-74-2	10,000	10,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
fluoranthene	206-44-0	8,800	130,000	190,000	0.083J	**0.21**	**1.4**	**1.1**	<0.12	<0.12	**0.82**	**12**	<0.12	0.027J	0.080J	**0.13**	<0.12	<0.12
pyrene	129-00-0	6,600	96,000	190,000	0.074J	**0.25**	**1.2**	**0.92**	<0.12	<0.12	**0.63**	**7.0**	<0.12	0.024J	**0.11**	**0.13**	<0.12	<0.12
butyl benzyl phthalate	85-68-7	9,800	10,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-3'-dichlorobenzidine	91-94-1	41	200	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(a)anthracene	56-55-3	6.1	130	190,000	0.0436J	0.14	0.83	0.55	<0.12	<0.12	0.43	5.4	<0.12	<0.13	0.062J	0.14	<0.12	<0.12
chrysene	218-01-9	35	760	190,000	0.047J	0.17	0.75	0.51	<0.12	<0.12	0.43	5.0	<0.12	<0.13	0.11	0.18	<0.12	<0.12
bis(2-ethylhexyl) phthalate	117-81-7	1,300	6,500	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
di-n-octyl phthalate	117-84-0	2,200	10,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(b)fluoranthene	205-99-2	3.5	76	190,000	0.057J	**0.17**	**1.0**	**0.61**	<0.12	<0.12	**0.46**	**6.4**	<0.12	<0.13	0.074J	**0.33**	<0.12	<0.12
benzo(k)fluoranthene	207-08-9	3.5	76	190,000	<0.11	0.044J	**0.27**	**0.21**	<0.12	<0.12	**0.12**	**1.8**	<0.12	<0.13	<0.10	0.083J	<0.12	<0.12
benzo(a)pyrene	50-32-8	4.2	91	190,000	<0.15	0.14J	0.70	0.48	<0.16	<0.16	0.31	**4.8**	<0.16	<0.17	0.041J	0.26	<0.16	<0.16
indeno (1,2,3-cd) pyrene	193-39-5	3.5	76	190,000	0.028J	0.083J	**0.43**	**0.28**	<0.16	<0.16	**0.20**	**3.0**	<0.16	<0.17	0.044J	**0.25**	<0.16	<0.16
dibenzo(a,h)anthracene	53-70-3	1	22	190,000	<0.11	0.023J	**0.13**	0.072J	<0.12	<0.12	**0.054**	**0.62**	<0.12	<0.13	<0.10	0.052J	<0.12	<0.12
benzo(g,h,i)perylene	191-24-2	13,000	190,000	190,000	<0.029J	0.089J	**0.41**	**0.27**	<0.16	<0.16	**0.20**	**2.9**	<0.16	<0.17	0.064J	**0.30**	<0.16	<0.16

Appendix D2(d): Direct Contact MSCs Compared to Soil Analytical Results - Total Petroleum Hydrocarbons

All results are reported in mg/kg (ppm)	Medium-Specific Concentrations			FROG-SS-212 (5.0-7.0)
	Direct Contact Residential	Direct Contact Non-Residential Surface Soil	Direct Contact Non-Residential Subsurface Soil	
Total Petroleum Hydrocarbons				
Gasoline Range Organics	-	-	-	**200**
Diesel Range Organics	-	-	-	**7,800**

Appendix D2(e): Direct Contact MSCs Compared to Soil Analytical Results - Polychlorinated Biphenyls

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Direct Contact Residential	Direct Contact Non-Residential Surface Soil	Direct Contact Non-Residential Subsurface Soil	FROG-SS-101 (0-2)	FROG-SS-101 (3-5)	FROG-SS-102 (0-2)	FROG-SS-102 (19-21)	FROG-SS-103 (0-2)	FROG-SS-103 (28-30)	FROG-SS-104 (0-2)	FROG-SS-104 (10-11.5)	FROG-SS-105 (1-3)	FROG-SS-105 (13-15)	FROG-SS-111 (0-2)	FROG-SS-111 (10-11)	FROG-SS-112 (0-2)	FROG-SS-112 (7-9)	FROG-SS-113 (0-2)	FROG-SS-113 (6-8)	FROG-SS-114 (0-2)	FROG-SS-114 (17-19)	FROG-SS-115 (0-2)	FROG-SS-115 (6.5-8.5)	FROG-SS-116 (0-2)
Polychlorinated Biphenyls																									
Aroclor 1016	12674-11-2	15	220	10,000	<0.0574	<0.0587	<0.0529	<0.0586	<0.0528	<0.0675	<0.0596	<0.0566	<0.0527	<0.0632	<0.0537	<0.0576	<0.0509	<0.0499	<0.0577	<0.0600	<0.0578	<0.0628	<0.0529	<0.0585	<0.0516
Aroclor 1221	11104-28-2	4.7	23	27	<0.0574	<0.0587	<0.0529	<0.0586	<0.0528	<0.0675	<0.0596	<0.0566	<0.0527	<0.0632	<0.0537	<0.0576	<0.0509	<0.0499	<0.0577	<0.0600	<0.0578	<0.0628	<0.0529	<0.0585	<0.0516
Aroclor 1232	11141-16-5	9.3	46	10,000	<0.0574	<0.0587	<0.0529	<0.0586	<0.0528	<0.0675	<0.0596	<0.0566	<0.0527	<0.0632	<0.0537	<0.0576	<0.0509	<0.0499	<0.0577	<0.0600	<0.0578	<0.0628	<0.0529	<0.0585	<0.0516
Aroclor 1242	53469-21-9	9.3	46	10,000	<0.0574	<0.0587	<0.0529	<0.0586	<0.0528	<0.0675	<0.0596	<0.0566	<0.0527	<0.0632	<0.0537	<0.0576	<0.0509	<0.0499	<0.0577	<0.0600	<0.0578	<0.0628	<0.0529	<0.0585	<0.0516
Aroclor 1248	12672-29-6	9.3	46	10,000	<0.0574	<0.0587	<0.0529	<0.0586	<0.0528	<0.0675	<0.0596	<0.0566	<0.0527	<0.0632	<0.0537	<0.0576	<0.0509	<0.0499	<0.0577	<0.0600	<0.0578	<0.0628	<0.0529	<0.0585	<0.0516
Aroclor 1254	11097-69-1	4.4	64	10,000	<0.0574	<0.0587	<0.0529	<0.0586	0.0114J	<0.0675	<0.0596	<0.0566	0.0454J	<0.0632	<0.0537	<0.0576	<0.0509	<0.0499	<0.0577	<0.0600	<0.0578	<0.0628	<0.0529	<0.0585	<0.0516
Aroclor 1260	11096-82-5	9.3	46	190,000	0.0354J	<0.0587	**0.0558**	<0.0586	<0.0528	<0.0675	<0.0596	<0.0566	0.0214J	<0.0632	<0.0537	<0.0576	<0.0509	<0.0499	<0.0577	<0.0600	<0.0578	<0.0628	0.0126J	<0.0585	**0.112**
Aroclor 1262	37324-23-5	-	-	-	<0.0574	<0.0587	<0.0529	<0.0586	<0.0528	<0.0675	<0.0596	<0.0566	<0.0527	<0.0632	<0.0537	<0.0576	<0.0509	<0.0499	<0.0577	<0.0600	<0.0578	<0.0628	<0.0529	<0.0585	<0.0516
Aroclor 1268	11100-14-4	-	-	-	0.0179J	<0.0587	<0.0529	<0.0586	<0.0528	<0.0675	<0.0596	<0.0566	<0.0527	<0.0632	<0.0537	<0.0576	<0.0509	<0.0499	<0.0577	<0.0600	<0.0578	<0.0628	0.00717J	<0.0585	**0.196**
Total PCBs	1336-36-3	9.3	46	190,000	0.0533J	<0.0587	**0.0558**	<0.0586	0.0114J	<0.0675	<0.0596	<0.0566	0.0668J	<0.0632	<0.0537	<0.0576	<0.0509	<0.0499	<0.0577	<0.0600	<0.0578	<0.0628	0.0198J	<0.0585	**0.308**

Appendix D2(e): Direct Contact MSCs Compared to Soil Analytical Results - Polychlorinated Biphenyls

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Direct Contact Residential	Direct Contact Non-Residential Surface Soil	Direct Contact Non-Residential Subsurface Soil	FROG-SS-116 (18.5-20.5)	FROG-SS-117 (0-2)	FROG-SS-DUP-103	FROG-SS-117 (11-13)	FROG-SS-118 (0-2)	FROG-SS-118 (10-12)	FROG-SS-DUP-102	FROG-SS-119 (0-0.5)	FROG-SS-119 (0.5-1)	FROG-SS-120 (0-2)	FROG-SS-120 (2-3.5)	FROG-SS-121 (0-2)	FROG-SS-121 (20-21.5)	FROG-SS-122 (1.5-3.5)	FROG-SS-122 (30-32)	FROG-SS-123 (1-3)	FROG-SS-123 (17-19)	FROG-SS-DUP-104	FROG-SS-124 (FLOOR)	FROG-SS-125 (FLOOR)	FROG-SS-126 (FLOOR)
Polychlorinated Biphenyls																									
Aroclor 1016	12674-11-2	15	220	10,000	<0.0565	<0.0513	<0.0495	<0.0558	<0.057	<0.0574	<0.0604	<0.0522	<0.0519	<0.0510	<0.0516	<0.0515	<0.0586	<0.0563	<0.0694	<0.0538	<0.0601	<0.0580	<0.0499	<0.0480	<0.0500
Aroclor 1221	11104-28-2	4.7	23	27	<0.0565	<0.0513	<0.0495	<0.0558	<0.057	<0.0574	<0.0604	<0.0522	<0.0519	<0.0510	<0.0516	<0.0515	<0.0586	<0.0563	<0.0694	<0.0538	<0.0601	<0.0580	<0.0499	<0.0480	<0.0500
Aroclor 1232	11141-16-5	9.3	46	10,000	<0.0565	<0.0513	<0.0495	<0.0558	<0.057	<0.0574	<0.0604	<0.0522	<0.0519	<0.0510	<0.0516	<0.0515	<0.0586	<0.0563	<0.0694	<0.0538	<0.0601	<0.0580	<0.0499	<0.0480	<0.0500
Aroclor 1242	53469-21-9	9.3	46	10,000	<0.0565	<0.0513	<0.0495	<0.0558	<0.057	<0.0574	<0.0604	0.00929J	0.0177J	<0.0510	<0.0516	<0.0515	<0.0586	<0.0563	<0.0694	<0.0538	<0.0601	<0.0580	<0.0499	<0.0480	0.0166J
Aroclor 1248	12672-29-6	9.3	46	10,000	<0.0565	<0.0513	<0.0495	<0.0558	<0.057	<0.0574	<0.0604	<0.0522	<0.0519	<0.0510	<0.0516	<0.0515	<0.0586	<0.0563	<0.0694	<0.0538	<0.0601	<0.0580	0.0242J	<0.0480	<0.0500
Aroclor 1254	11097-69-1	4.4	64	10,000	<0.0565	<0.0513	<0.0495	<0.0558	<0.057	<0.0574	<0.0604	0.0280J	0.0331J	<0.0510	**0.117**	<0.0515	<0.0586	<0.0563	<0.0694	<0.0538	<0.0601	<0.0580	0.0207J	<0.0480	0.0197J
Aroclor 1260	11096-82-5	9.3	46	190,000	<0.0565	<0.0513	0.0178J	**0.087**	<0.057	<0.0574	<0.0604	0.0257J	0.0198J	**0.102**	**0.133**	<0.0515	<0.0586	<0.0563	<0.0694	<0.0538	<0.0601	<0.0580	0.0283J	<0.0480	0.00941J
Aroclor 1262	37324-23-5	-	-	-	<0.0565	<0.0513	<0.0495	<0.0558	<0.057	<0.0574	<0.0604	<0.0522	<0.0519	<0.0510	<0.0516	<0.0515	<0.0586	<0.0563	<0.0694	<0.0538	<0.0601	<0.0580	<0.0499	<0.0480	<0.0500
Aroclor 1268	11100-14-4	-	-	-	<0.0565	<0.0513	0.0138J	**0.0845**	<0.057	<0.0574	<0.0604	<0.0522	<0.0519	**0.0992**	**0.0858**	<0.0515	<0.0586	<0.0563	<0.0694	<0.0538	<0.0601	<0.0580	<0.0499	<0.0480	<0.0500
Total PCBs	1336-36-3	9.3	46	190,000	<0.0565	<0.0513	0.0316J	**0.172**	<0.057	<0.0574	<0.0604	0.0630J	0.0706J	**0.201**	**0.336**	<0.0515	<0.0586	<0.0563	<0.0694	<0.0538	<0.0601	<0.0580	0.0732J	<0.0480	0.0457J

Appendix D2(e): Direct Contact MSCs Compared to Soil Analytical Results - Polychlorinated Biphenyls

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Direct Contact Residential	Direct Contact Non-Residential Surface Soil	Direct Contact Non-Residential Subsurface Soil	FROG-SS-DUP-105	FROG-SS-127 (FLOOR)
Polychlorinated Biphenyls						
Aroclor 1016	12674-11-2	15	220	10,000	<0.0491	<0.0500
Aroclor 1221	11104-28-2	4.7	23	27	<0.0491	<0.0500
Aroclor 1232	11141-16-5	9.3	46	10,000	<0.0491	<0.0500
Aroclor 1242	53469-21-9	9.3	46	10,000	0.0156J	<0.0500
Aroclor 1248	12672-29-6	9.3	46	10,000	<0.0491	<0.0500
Aroclor 1254	11097-69-1	4.4	64	10,000	0.0145J	<0.0500
Aroclor 1260	11096-82-5	9.3	46	190,000	0.0108J	<0.0500
Aroclor 1262	37324-23-5	-	-	-	<0.0491	<0.0500
Aroclor 1268	11100-14-4	-	-	-	<0.0491	<0.0500
Total PCBs	1336-36-3	9.3	46	190,000	0.0409J	<0.0500

Appendix D2(f): Direct Contact MSCs Compared to Soil Analytical Results - Dioxins and Furans

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Direct Contact Residential	Medium-Specific Concentrations: Direct Contact Non-Residential Surface Soil	Medium-Specific Concentrations: Direct Contact Non-Residential Subsurface Soil	FROG-SS-128 (0-0.5)
Dioxins and Furans					
2,3,7,8-TCDF	51207-31-9	-	-	-	**0.0000030**
2,3,7,8-TCDD	1746-01-6	0.00014	0.0007	190,000	**0.0000014**
1,2,3,7,8-PeCDF	57117-41-6	-	-	-	<0.0000050
2,3,4,7,8-PeCDF	57117-31-4	-	-	-	<0.0000050
1,2,3,7,8-PeCDD	40321-76-4	-	-	-	**0.000015**
1,2,3,4,7,8-HxCDF	70648-26-9	-	-	-	**0.000028 P**
1,2,3,6,7,8-HxCDF	57117-44-9	-	-	-	**0.000015**
2,3,4,6,7,8-HxCDF	60851-34-5	-	-	-	**0.000017**
1,2,3,7,8,9-HxCDF	72918-21-9	-	-	-	<0.0000050
1,2,3,4,7,8-HxCDD	39227-28-6	-	-	-	**0.000029**
1,2,3,6,7,8-HxCDD	57653-85-7	-	-	-	**0.000045**
1,2,3,7,8,9-HxCDD	19408-74-3	-	-	-	**0.000066**
1,2,3,4,6,7,8-HpCDF	67562-39-4	-	-	-	**0.00035**
1,2,3,4,7,8,9-HpCDF	55673-89-7	-	-	-	**0.000024**
1,2,3,4,6,7,8-HpCDD	35822-46-9	-	-	-	**0.0014**
OCDF	39001-02-0	-	-	-	**0.00087**
OCDD	3268-87-9	-	-	-	**0.022**
Toxic Equivalency Quotient	-	-	-	-	**0.000063**

Grey results are not detected above the laboratory reporting limit

Bold results are detected above laboratory reporting limit

Yellow Highlighted results exceed the PADEP direct contact numeric values for residential soil

Orange Highlighted results exceed the PADEP direct contact numeric values for non-residential soil

Gray Highligted results have a method detection limit that exceeds at least one MSC

J: Estimated value. The target analyte concentration is below the laboratory reporting limit, but above the method detection limit

B: The analyte was detected above the reporting limit in the associated method blank.

NA: Not Analyzed

Values following < are the laboratory reporting limit

Values following *< are the method detection limit and shown where the laboratory reporting limit exceeds an MSC

All values are expressed in milligrams per kilogram (mg/kg) = 1 part per million (ppm)

Sample results are compared to PADEP MSCs for several scenarios that are provided in 25 Pa. Code Chapter 250, Administration of the Land Recycling Program.

Appendix D3(a): Used Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results - Inorganics

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-101 (0-2)	FROG-SS-101 (3-5)	FROG-SS-102 (0-2)	FROG-SS-102 (19-21)	FROG-SS-103 (0-2)	FROG-SS-103 (28-30)	FROG-SS-104 (0-2)	FROG-SS-104 (10-11.5)	FROG-SS-105 (1-3)	FROG-SS-105 (13-15)	FROG-SS-108 (1-3)	FROG-SS-108 (5.5-7.5)	FROG-SS-DUP-101	FROG-SS-109 (2.5-4.5)	FROG-SS-109 (8-10)	FROG-SS-110 (1.5-3.5)	FROG-SS-110 (5-7)	FROG-SS-111 (0-2)	FROG-SS-111 (10-11)	FROG-SS-112 (0-2)	FROG-SS-112 (7-9)	FROG-SS-115 (0-2)
Metals																									
aluminum	7429-90-5	-	-	**12,400**	**12,800**	**8,950**	**8,980**	**12,400**	**11,200**	**13,200**	**12,400**	**7,620**	**11,700**	**7,740**	**13,600**	**23,900**	**11,100**	**15,600**	**3,360**	**2,750**	**14,600**	**12,300**	**2,580**	**5,770**	**6,030**
antimony	7440-36-0	27	27	<4.73	<4.81	<4.48	<4.76	<21.8	<14.0	<11.9	<4.79	<22.6	<12.9	<4.87	<5.16	<24.6	<4.65	<12.0	<20.5	<20.3	<4.42	<4.95	<8.3	<1.68	<21.0
arsenic	7440-38-2	29	29	**8.94**	**5.67**	**6.41**	**7.14**	**16.3**	**10.2**	**7.64**	**10.5**	**138**	**23.8**	**38.0**	**16.9**	**17.4**	**5.95**	**11.1**	**4.44**	**5.93**	**6.64**	**5.64**	**2.77**	**9.35**	**7.93**
barium	7440-39-3	8,200	8,200	**63.8**	**25.4**	**60.7**	**30.8**	**212**	**63.6**	**37.0**	**95.9**	**102**	**62.3**	**374**	**68.8**	**75.4**	**152**	**55.8**	**124**	**85.6**	**97.1**	**70.5**	**49.2**	**43**	**78.2**
beryllium	7440-41-7	320	320	**0.648**	**1.46**	**0.748**	**1.84**	1.68J	**3.35**	1.08J	**1.38**	0.696J	**5.80**	**1.71**	**3.51**	2.28J	**1.10**	**1.99**	<2.05	<2.03	**0.890**	**1.33**	0.110J	**0.946**	0.468J
cadmium	7440-43-9	38	38	0.061J	0.095J	0.218J	0.097J	0.343J	0.212J	<2.37	0.107J	<4.52	0.209J	0.158J	<1.03	<4.92	0.093J	0.367J	<4.11	<4.06	<0.884	0.185J	0.117J	0.094J	<4.20
calcium	7440-70-2	-	-	**1,810**	**2,110**	**13,800**	**1,780**	**1,180**	**2,320**	**1,470**	**1,230**	**18,500**	**3,270**	**13,200**	**44,900**	**4,120**	**1,520**	**2,080**	**4,790**	**4,270**	**4,980**	**8,080**	**5,550**	**10,100**	**2,580**
chromium, total	7440-47-3	-	-	**24.9**	**33.7**	**34.2**	**34.9**	**110**	**32.4**	**33.3**	**25.1**	**96.6**	**29.4**	**16.0**	**20.7**	**44.9**	**20.2**	**42.0**	**257**	**257**	**23.7**	**28.3**	**213**	**90.1**	**101**
chromium, trivalent	16065-83-1	190,000	190,000	**24.0J**	**33.7**	**34.2**	**34.9**	**109**	**32.4**	**33.3**	**25.1**	**96.6**	**29.2J**	**16.0**	**20.2J**	**44.5J**	**20.2**	**41.4J**	**257**	**254**	**23.7**	**28.3**	**208**	**89.9J**	**101**
chromium, hexavalent	18540-29-9	190	190	0.911J	<1.01	<0.897	<1.01	**1.28**	<1.15	<1.00	<0.992	<0.913	0.244J	<1.03	0.442J	0.410J	<0.974	0.548J	<0.834	**2.58**	<0.907	<0.999	**4.51**	0.184J	<0.871
cobalt	7440-48-4	45	130	**10.0**	**14.2**	**8.57**	**15.2**	**101**	**14.7**	**32.7**	**12.3**	**18.2**	**9.66**	**14.0**	**9.14**	**20.0**	**11.2**	**27.8**	**65.7**	**60.5**	**16.9**	**16.4**	52.6	30.8	**12.6**
copper	7440-50-8	43,000	43,000	**16.6**	**23.1**	**40.8**	**21.8**	**16.0**	**26.8**	**19.4**	**14.9**	**140**	**45.8**	**76.8**	**21.0**	**28.7**	**9.33**	**21.6**	**157**	**147**	**45.5**	**17.6**	35.2	31.9	**73.1**
iron	7439-89-6	-	-	**26,900**	**37,100**	**20,700**	**26,400**	**73,500**	**36,600**	**35,600**	**27,300**	**64,600**	**50,400**	**19,400**	**29,600**	**60,500**	**21,000**	**56,900**	**57,500**	**52,200**	**38,200**	**35,600**	**31,000**	**30,400**	**32,900**
lead	7439-92-1	450	450	**22.3**	**18.3**	**51.2**	**18.6**	**46.0**	**17.8**	**21.0**	**13.6**	**79.5**	**22.3**	**115**	**17.6**	**31.8**	**17.4**	**17.4**	**170**	**165**	**17.4**	**22.6**	**16.0**	**17.4**	**63.4**
magnesium	7439-95-4	-	-	**1,010**	**518**	**3,400**	**1,730**	**475**	**1,350**	**10,000**	**2,680**	**8,020**	**892**	**1,790**	**18,200**	**2,000**	**1,400**	**991**	**124,000**	**114,000**	**6,700**	**4,300**	**97,800**	**46,900**	**12,600**
manganese	7439-96-5	2,000	2,000	**644**	**137**	**1,130**	**79.8**	**4,780**	**141**	**715**	**471**	**8,830**	**502**	**443**	**598**	**1,020**	**920**	**1,420**	**9,540**	**8,700**	**643**	**218**	**3,670**	**3,240**	**20,500**
mercury	7439-97-6	10	10	<0.086	**0.120**	**0.107**	<0.103	0.081J	0.096J	<0.081	<0.090	0.062J	**0.144**	**0.237**	**0.0880**	0.093J	<0.078	**0.132**	<0.083	<0.084	<0.085	0.082J	0.050J	0.061J	0.047J
nickel	7440-02-0	650	650	**12.6**	**17.1**	**22.5**	**21.5**	**36.6**	**35.3**	**103**	**20.9**	**96.8**	**44.9**	**24.0**	**30.6**	**44.2**	**11.4**	**33.4**	**1,210**	**1,100**	**30.2**	**16.4**	**911**	**425**	**120**
potassium	7440-09-7	-	-	**580**	**401**	**423**	**516**	285J	639J	538J	**681**	488J	522J	**580**	**713**	1,070J	**511**	**639**	<1,030	246J	**605**	**577**	<415	408	422J
selenium	7782-49-2	26	26	<1.89	<1.92	<1.79	<1.9	<8.73	<5.61	<4.75	<1.91	<9.03	<5.15	0.795J	<2.06	<9.84	0.502J	<4.78	<8.22	<8.12	<1.77	<1.98	<3.32	<1.68	<8.40
silver	7440-22-4	84	84	<0.473	<0.481	<0.448	<0.476	<2.18	<1.40	<1.19	<0.479	<2.26	<1.29	0.460J	<0.516	<2.46	<0.465	<1.20	<2.05	<2.03	<0.442	<0.495	<0.830	<0.421	<2.10
sodium	7440-23-5	-	-	<189	<192	<179	<190	<873	<561	<475	<191	<903	<515	**392**	142J	<984	**490**	<478	<822	<812	<177	<198	<332	272	<840
thallium	7440-28-0	14	14	<1.89	<1.92	<1.79	<1.9	*<3.94	*<2.53	*<2.14	<1.91	*<4.07	*<2.32	<1.95	<2.06	*<4.44	<1.86	*<2.16	*<3.70	*<3.66	<1.77	<1.98	*<1.50	<1.68	*<3.79
vanadium	7440-62-2	17,000	49,000	**36.7**	**49.9**	**28.0**	**31.3**	**81.6**	**41.4**	**40.3**	**35.6**	**28.5**	**62.6**	**49.0**	**34.0**	**62.4**	**30.8**	**51.7**	**8.21**	**7.56**	**27.0**	**34.9**	**5.34**	**26.7**	**16.3**
zinc	7440-66-6	12,000	12,000	**30.6**	**26.8**	**78.4**	**46.5**	**36.8**	**58.0**	**33.6**	**44.4**	**88.8**	**67.3**	**216**	**43.0**	**61.7**	**51.3**	**85.2**	**84.6**	**85.2**	**71.7**	**94.4**	**22.2**	**39.3**	**76.7**
Free Cyanide																									
cyanide, free	57-12-5	200	200	<1.2	<1.3	<1.1	<1.3	<1.1	<1.4	<1.2	<1.2	<1.1	<1.4	NA	NA	NA	NA	NA	NA	NA	<1.1	<1.2	<1.1	<1.1	<1.1

Appendix D3(a): Used Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results - Inorganics

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-115 (6.5-8.5)	FROG-SS-116 (0-2)	FROG-SS-116 (18.5-20.5)	FROG-SS-117 (0-2)	FROG-SS-DUP-103	FROG-SS-117 (11-13)	FROG-SS-118 (0-2)	FROG-SS-118 (10-12)	FROG-SS-DUP-102	FROG-SS-119 (0-0.5)	FROG-SS-119 (0.5-1)	FROG-SS-120 (0-2)	FROG-SS-120 (2-3.5)	FROG-SS-121 (0-2)	FROG-SS-121 (20-21.5)	FROG-SS-122 (1.5-3.5)	FROG-SS-122 (30-32)	FROG-SS-123 (1-3)	FROG-SS-123 (17-19)	FROG-SS-DUP-104	FROG-SS-124 (FLOOR)	FROG-SS-125 (FLOOR)
Metals																										
aluminum	7429-90-5	-	-	**1,0100**	**2,440**	**8,240**	**4,820**	**4,320**	**9,170**	**12,000**	**15,700**	**12,900**	**3,440**	**6,930**	**3,960**	**5,980**	**5,160**	**14,800**	**4,940**	**7,760**	**1,1200**	**9,940**	**9,520**	**2,330**	**2,150**
antimony	7440-36-0	27	27	<4.89	<20.8	<4.82	<4.04	<4.02	<4.58	<23.9	<24.3	<9.79	<42.5	<21.6	<8.5	<8.70	<21.6	<4.51	<4.52	<5.87	<4.48	<11.9	<11.8	<20.1	<19.6
arsenic	7440-38-2	29	29	**9.74**	**11.3**	**6.28**	**8.96**	**6.62**	**7.31**	**18.9**	**12.7**	**24.7**	**16.9**	**15.4**	**12.1**	**22.0**	**22.1**	**13.8**	**8.78**	**14.0**	**7.02**	**13.8**	**14.3**	**8.43**	**6.01**
barium	7440-39-3	8,200	8,200	**22.7**	**33.3**	**35.1**	**58.6**	**46.0**	**60.0**	**439**	**102**	**65.6**	**144**	**251**	**102**	**101**	**120**	**147**	**87.7**	**324**	**95.3**	**35.1**	**33.4**	**323**	**252**
beryllium	7440-41-7	320	320	**1.79**	<2.08	**1.59**	0.377J	0.273J	**1.22**	1.98J	**4.21**	**3.99**	<4.25	0.301J	0.188J	0.491J	0.499J	**1.82**	**0.620**	**2.00**	**0.956**	0.620J	0.584J	<2.01	<1.96
cadmium	7440-43-9	38	38	0.120J	1.30J	0.840J	0.116J	<0.805	<0.915	0.757J	0.369J	0.302J	2.56J	0.700J	0.332J	1.12J	<4.31	0.103J	0.136J	<1.17	0.055J	<2.38	<2.36	0.867J	0.268J
calcium	7440-70-2	-	-	**602**	**6,600**	**1,280**	**7,880**	**36,300**	**43,500**	**23,400**	**10,300**	**60,700**	**44,500**	**129,000**	**3,210**	**9,230**	**42,700**	**3,720**	**4,980**	**29,500**	**3,800**	**2,200**	**2,420**	**22,200**	**2,180**
chromium, total	7440-47-3	-	-	**27.2**	**332**	**53.9**	**85.9**	**78.0**	**78.6**	**162**	**41.6**	**35.0**	**1,390**	**222**	**94.6**	**413**	**60.9**	**32.3**	**15.2**	**20.5**	**24.8**	**50.9**	**70.9**	**420**	**244**
chromium, trivalent	16065-83-1	190,000	190,000	**27.2**	**317**	**51.3**	**85.9**	**77.4J**	**76.9**	**162**	**41.6**	**34.6J**	**1,380**	**220**	**94.6**	**411**	**60.9**	**31.9J**	**14.3J**	**20.1J**	**23.9J**	**50.5J**	**70.6J**	**420J**	**244J**
chromium, hexavalent	18540-29-9	190	190	<0.988	**14.6**	<0.988	<0.846	0.629J	**1.71**	<0.978	<0.995	0.351J	**4.20**	**2.44**	<0.876	**1.94**	<0.876	0.393J	0.853J	0.431J	0.862J	0.422J	0.346J	0.419J	0.233J
cobalt	7440-48-4	45	130	**38.8**	**24.6**	**23.0**	**14.4**	**13.3**	**16.4**	**66.0**	**32.9**	**29.8**	**45.6**	**15.1**	**13.7**	**28.6**	**34.4**	**13.5**	**12.5**	**18.2**	**15.4**	**7.33**	**7.02**	**56.6**	**50.1**
copper	7440-50-8	43,000	43,000	**34.9**	**195**	**25.8**	**69.8**	**57.2**	**22.8**	**69.5**	**31.4**	**26.0**	**649**	**127**	**93.7**	**196**	**276**	**39.8**	**24.2**	**33.6**	**10.1**	**24.7**	**23.0**	**559**	**125**
iron	7439-89-6	-	-	**35,000**	**53,300**	**24,900**	**29,900**	**28,000**	**40,100**	**98,200**	**83,900**	**74,200**	**194,000**	**50,500**	**47,200**	**62,500**	**111,000**	**30,200**	**25,500**	**32,300**	**22,500**	**41,300**	**40,800**	**77,100**	**41,600**
lead	7439-92-1	450	450	**41.0**	**29.0**	**25.3**	**38.8**	**25.0**	**20.0**	**73.1**	**24.3**	**18.8**	**124**	**130**	**46.1**	**58.4**	**290**	**24.6**	**24.2**	**22.4**	**28.5**	**17.5**	**17.4**	**47.5**	17.6J
magnesium	7439-95-4	-	-	**1,070**	**43,400**	**2,700**	**15,600**	**18,800**	**27,200**	**27,800**	**2,070**	**2,000**	**54,400**	**30,700**	**14,400**	**40,600**	**8,240**	**4,620**	**746**	**1,140**	**1,560**	**357**	**347**	**135,000**	**121,000**
manganese	7439-96-5	2,000	2,000	**138**	**8,260**	**452**	**5,630**	**4,290**	**1,030**	**7,580**	**924**	**611**	**60,900**	**36,900**	**13,300**	**10,700**	**8,880**	**3,070**	**572**	**2,510**	**989**	**252**	**260**	**6,420**	**6,430**
mercury	7439-97-6	10	10	**0.114**	0.055J	0.070J	<0.077	<0.071	<0.096	**0.840**	**0.104**	**0.237**	0.054J	**0.100**	**0.107**	**0.113**	**0.149**	**0.192**	<0.09	**0.142**	**0.093**	<0.100	<0.096	<0.083	<0.065
nickel	7440-02-0	650	650	**31.6**	**429**	**25.0**	**152**	**166**	**33.3**	**251**	**41.5**	**35.4**	**568**	**171**	**141**	**368**	**114**	**27.9**	**12.9**	**45.3**	**13.1**	**14.5**	**13.7**	**1,250**	**1,130**
potassium	7440-09-7	-	-	**346**	<1,040	**431**	**270**	**271**	**546**	545J	825J	**698**	<2,130	534J	268J	362J	504J	**1,250**	**540**	**505**	**637**	323J	311J	431J	306J
selenium	7782-49-2	26	26	<1.96	<8.32	<1.93	<1.61	<1.61	<1.83	<9.57	<9.74	<3.91	<17.0	<8.64	<3.4	<3.48	<8.62	<1.8	<1.81	<2.35	<1.79	<4.76	<4.73	<8.05	<7.83
silver	7440-22-4	84	84	<0.489	<2.08	<0.482	0.244J	<0.402	<0.458	<2.39	<2.43	<0.979	<4.25	<2.16	<0.850	<0.870	**2.20**	<0.451	<0.452	<0.587	<0.448	<1.19	<1.18	1.36J	<1.96
sodium	7440-23-5	-	-	<196	<832	<193	<161	<161	<183	<957	<974	<391	<1,700	<864	**798**	**505**	<862	<180	<181	<235	<179	<476	<473	**2,950**	**4,780**
thallium	7440-28-0	14	14	<1.96	*<3.75	<1.93	<1.61	<1.61	<1.83	*<4.32	*<4.39	*<1.76	*<38.4	*<3.90	*<1.53	*<1.57	*<3.89	<1.8	<1.81	*<1.06	<1.79	*<2.14	*<2.13	*<3.63	*<3.53
vanadium	7440-62-2	17,000	49,000	**52.8**	**14.9**	**53.5**	**15.5**	**12.1**	**38.9**	**57.4**	**82.4**	**73.1**	**80.5**	**15.6**	**14.3**	25.0	44.3	41.4	27.1	46.9	29.9	81.4	78.7	22.3	11.0
zinc	7440-66-6	12,000	12,000	**82**	**63.2**	**31.6**	**47.9**	**39.7**	**29**	**148**	**63.2**	**48.4**	**399**	**205**	**72**	**192**	**240**	**34.1**	**17.8**	**51.4**	**32.7**	**35.2**	**34.5**	**299**	**112**
Free Cyanide																									
cyanide, free	57-12-5	200	200	<1.2	<1.1	<1.2	<1.0	<1.0	<1.2	<1.2	<1.2	<1.2	<1.1	<1.1	<1.1	<1.1	<1.1	<1.2	<1.2	<1.5	<1.2	<1.2	<1.2	<1.0	<1.0

Appendix D3(a): Used Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results - Inorganics

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-126 (FLOOR)	FROG-SS-DUP-105	FROG-SS-127 (FLOOR)	FROG-SS-201(1.0-2.0)	FROG-SS-201 (4.5-5.0)	FROG-SS-201 (9.5-10.)	FROG-SS-201 (14.5-15.0)	FROG-SS-202 (1.0-2.0)	FROG-SS-202 (5.0-5.5)	FROG-SS-202 (7.5-8.0)	FROG-SS-202 (9.0-9.5)	FROG-SS-203 (1.5-2.0)	FROG-SS-204 (1.0-2.0)	FROG-SS-204 (3.5-4.0)	FROG-SS-205 (1.0-2.0)	FROG-SS-DUP-202	FROG-SS-205 (3.5-4.0)	FROG-SS-206 (0.5-2.0)	FROG-SS-206 (4.5-5.0)	FROG-SS-206 (9.5-10.0)	FROG-SS-206 (10.5-11.0)	FROG-SS-207 (0.5-2.0)
Metals																									
aluminum	7429-90-5	-	-	**4,660**	**3,110**	**4,490**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
antimony	7440-36-0	27	27	<19.2	<19.8	<19.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
arsenic	7440-38-2	29	29	**9.61**	**9.26**	**14.3**	3.63J	**8.76**	**7.57**	**9.84**	**9.38**	**18.8**	**16.8**	**18.2**	**4.46**	**9.43**	**10.9**	**5.38**	**4.55**	**11.2**	**13.3**	**7.76**	**10.1**	**20.0**	**38.9**
barium	7440-39-3	8,200	8,200	**466**	**341**	**152**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
beryllium	7440-41-7	320	320	<1.92	<1.98	0.280J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cadmium	7440-43-9	38	38	0.961J	0.649J	1.06J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
calcium	7440-70-2	-	-	**17,100**	**4,830**	**20,000**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, total	7440-47-3	-	-	**676**	**506**	**1,300**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, trivalent	16065-83-1	190,000	190,000	**676**	**506**	**1,300J**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, hexavalent	18540-29-9	190	190	<0.810	<0.807	0.222J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cobalt	7440-48-4	45	130	**69.9**	**57.4**	**44.7**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
copper	7440-50-8	43,000	43,000	**404**	**297**	**1,300**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
iron	7439-89-6	-	-	**99,900**	**84,400**	**158,000**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**50,300**	**41,300**	**43,400**	**37,200**	**31,200**	**31,900**	**40,900**	**84,100**
lead	7439-92-1	450	450	**93.8**	**67.7**	**146**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
magnesium	7439-95-4	-	-	**148,000**	**124,000**	**54,200**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
manganese	7439-96-5	2,000	2,000	**20,300**	**11,700**	**30,200**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**13,600**	**11,200**	**2,250**	**925**	**189**	**1,680**	**536**	**51,600**
mercury	7439-97-6	10	10	<0.075	<0.080	<0.072	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
nickel	7440-02-0	650	650	**1,270**	**1,110**	**620**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
potassium	7440-09-7	-	-	421J	266J	485J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
selenium	7782-49-2	26	26	<7.69	<7.94	<7.79	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
silver	7440-22-4	84	84	<1.92	<1.98	<1.95	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sodium	7440-23-5	-	-	**2,810**	**1,920**	579J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
thallium	7440-28-0	14	14	*<17.3	<7.94	*<17.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
vanadium	7440-62-2	17,000	49,000	27.7	20.0	60.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
zinc	7440-66-6	12,000	12,000	**296**	**205**	**127**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Free Cyanide																									
cyanide, free	57-12-5	200	200	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix D3(a): Used Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results - Inorganics

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-207 (4.5-5.0)	FROG-SS-207 (5.5-6.0)	FROG-SS-207 (6.5-7.0)	FROG-SS-208 (0.0-2.0)	FROG-SS-208 (4.5-5.0)	FROG-SS-208 (9.5-10.0)	FROG-SS-208 (12.0-12.5)	FROG-SS-209 (0.0-2.0)	FROG-SS-209 (4.5-5.0)	FROG-SS-209 (9.5-10.0)	FROG-SS-209 (14.5-15.0)	FROG-SS-210 (0.0-2.0)	FROG-SS-210 (4.5-5.0)	FROG-SS-210 (9.5-10.0)	FROG-SS-210 (14.5-15.0)	FROG-SS-211 (0.0-2.0)	FROG-SS-211 (4.5-5.0)	FROG-SS-211 (7.5-8.0)	FROG-SS-211 (10.0-10.5)	FROG-SS-212 (0.0-2.0)	FROG-SS-212 (4.5-5.0)	FROG-SS-212 (9.5-10.0)
Metals																									
aluminum	7429-90-5	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
antimony	7440-36-0	27	27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
arsenic	7440-38-2	29	29	**14.8**	**29.6**	**55.5**	**37.4**	**8.37**	**9.68**	**19**	**2.55**	**6.96**	**9.79**	**4.62**	**5.54**	**5.94**	**15.4**	**23**	**16.5**	**6.78**	**6.93**	**9.49**	**15.6**	**6.78**	**6.18**
barium	7440-39-3	8,200	8,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
beryllium	7440-41-7	320	320	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cadmium	7440-43-9	38	38	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
calcium	7440-70-2	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, total	7440-47-3	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, trivalent	16065-83-1	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, hexavalent	18540-29-9	190	190	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cobalt	7440-48-4	45	130	NA	NA	NA	NA	NA	NA	NA	**5.70**	**4.80**	**9.53**	**17.4**	**6.68**	**7.93**	**17.8**	**12.7**	**63.4**	**9.88**	**8.36**	**5.94**	**57.2**	**75.1**	**39.6**
copper	7440-50-8	43,000	43,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
iron	7439-89-6	-	-	**70,200**	**103,000**	**54,600**	**144,000**	**37,800**	**42,600**	**44,900**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
lead	7439-92-1	450	450	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
magnesium	7439-95-4	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
manganese	7439-96-5	2,000	2,000	**615**	**904**	**814**	**6,500**	**216**	**1,660**	**891**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
mercury	7439-97-6	10	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
nickel	7440-02-0	650	650	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
potassium	7440-09-7	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
selenium	7782-49-2	26	26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
silver	7440-22-4	84	84	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sodium	7440-23-5	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
thallium	7440-28-0	14	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
vanadium	7440-62-2	17,000	49,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
zinc	7440-66-6	12,000	12,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Free Cyanide																									
cyanide, free	57-12-5	200	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix D3(a): Used Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results - Inorganics

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations		FROG-SS-212 (13.5-14.0)	FROG-SS-213 (0.0-2.0)	FROG-SS-213 (4.5-5.0)	FROG-SS-213 (9.5-10.0)	FROG-SS-213 (14.5-15.0)	FROG-SS-214 (0.0-2.0)	FROG-SS-214 (4.0-4.5)	FROG-SS-214 (5.0-5.5)	FROG-SS-214 (9.0-9.5)	FROG-SS-215 (0.0-2.0)	FROG-SS-215 (4.5-5.0)	FROG-SS-DUP-201	FROG-SS-215 (9.5-10.0)	FROG-SS-215 (14.5-15.0)	FROG-SS-216 (0.0-2.0)	FROG-SS-216 (4.5-5.0)	FROG-SS-216 (6.0-7.0)	FROG-SS-216 (7.5-8.0)	FROG-SS-217 (0.0-2.0)	FROG-SS-217 (4.0-5.0)	FROG-SS-217 (9.0-10.0)	FROG-SS-217 (11.0-12.0)
		Used Aquifer Soil-to-Groundwater Residential	Used Aquifer Soil-to-Groundwater Non-Residential																						
Metals																									
aluminum	7429-90-5	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
antimony	7440-36-0	27	27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
arsenic	7440-38-2	29	29	**7.30**	**2.79**	**4.37**	**4.58**	**5.27**	**3.78**	**9.55**	**4.04**	**11.3**	**3.10**	**4.17**	**3.88**	**1.55**	**6.23**	**5.08**	**1.74**	**9.05**	**2.86**	**9.05**	**19.5**	**10.5**	**17.6**
barium	7440-39-3	8,200	8,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
beryllium	7440-41-7	320	320	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cadmium	7440-43-9	38	38	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
calcium	7440-70-2	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, total	7440-47-3	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, trivalent	16065-83-1	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, hexavalent	18540-29-9	190	190	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cobalt	7440-48-4	45	130	**13.1**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
copper	7440-50-8	43,000	43,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
iron	7439-89-6	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
lead	7439-92-1	450	450	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
magnesium	7439-95-4	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
manganese	7439-96-5	2,000	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
mercury	7439-97-6	10	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
nickel	7440-02-0	650	650	NA	**56.9**	**10.9**	**17.8**	**18.5**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**165**	**97.9**	**18.6**	**40.3**
potassium	7440-09-7	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
selenium	7782-49-2	26	26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
silver	7440-22-4	84	84	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sodium	7440-23-5	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
thallium	7440-28-0	14	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
vanadium	7440-62-2	17,000	49,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
zinc	7440-66-6	12,000	12,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Free Cyanide																									
cyanide, free	57-12-5	200	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix D3(a): Used Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results - Inorganics

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations		FROG-SS-218 (0.0-2.0)	FROG-SS-218 (4.0-5.0)	FROG-SS-218 (9.0-10.0)	FROG-SS-218 (11.0-12.0)	FROG-SS-219 (0.0-2.0)	FROG-SS-DUP-204	FROG-SS-219 (4.0-5.0)	FROG-SS-219 (5.5-6.5)	FROG-SS-220 (0.0-2.0)	FROG-SS-220 (4.0-5.0)	FROG-SS-DUP-203	FROG-SS-220 (5.5-6.0)	FROG-SS-221 (0.0-2.0)	FROG-SS-221 (4.0-5.0)	FROG-SS-221 (9.0-10.0)	FROG-SS-221 (14.0-15.0)	FROG-SS-222 (0.0-2.0)	FROG-SS-222 (4.0-4.5)	FROG-SS-222 (9.0-10.0)	FROG-SS-222 (10.5-11.5)	FROG-SS-223 (0.0-2.0)	FROG-SS-223 (4.0-5.0)
		Used Aquifer Soil-to-Groundwater Residential	Used Aquifer Soil-to-Groundwater Non-Residential																						
Metals																									
aluminum	7429-90-5	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
antimony	7440-36-0	27	27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
arsenic	7440-38-2	29	29	**9.45**	**11.9**	**17**	**11.8**	**9.76**	**6.84**	**7.25**	**17.2**	**8.94**	**5.76**	4.21J	**11.4**	**6.93**	**25.3**	**4.33**	**4.42**	**10.5**	**9.80**	**7.18**	**13.7**	**4.59**	**5.93**
barium	7440-39-3	8,200	8,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
beryllium	7440-41-7	320	320	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cadmium	7440-43-9	38	38	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
calcium	7440-70-2	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, total	7440-47-3	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, trivalent	16065-83-1	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, hexavalent	18540-29-9	190	190	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cobalt	7440-48-4	45	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
copper	7440-50-8	43,000	43,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
iron	7439-89-6	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
lead	7439-92-1	450	450	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
magnesium	7439-95-4	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
manganese	7439-96-5	2,000	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
mercury	7439-97-6	10	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
nickel	7440-02-0	650	650	NA	NA	NA	NA	NA	NA	NA	NA	**493**	**599**	**531**	**18.7**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
potassium	7440-09-7	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
selenium	7782-49-2	26	26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
silver	7440-22-4	84	84	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sodium	7440-23-5	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
thallium	7440-28-0	14	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
vanadium	7440-62-2	17,000	49,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
zinc	7440-66-6	12,000	12,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Free Cyanide																									
cyanide, free	57-12-5	200	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix D3(a): Used Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results - Inorganics

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-223 (9.0-10.0)	FROG-SS-223 (10.5-11.5)	FROG-SS-224 (0.0-2.0)	FROG-SS-224 (4.5-5.0)	FROG-SS-224 (9.5-10.0)	FROG-SS-224 (14.5-15.0)	FROG-SS-225 (0.0-2.0)	FROG-SS-225 (4.5-5.0)	FROG-SS-225 (9.5-10.0)	FROG-SS-225 (14.5-15.0)	FROG-SS-301 (0.0-2.0)	FROG-SS-301 (9.0-9.5)	FROG-SS-302 (0.0-2.0)	FROG-SS-DUP-301	FROG-SS-302 (6.5-7.0)	FROG-SS-303 (0.0-2.0)	FROG-SS-303 (4.5-5.0)	FROG-SS-304 (0.0-2.0)	FROG-SS-304 (14.5-15.0)	FROG-SS-305 (0.0-2.0)	FROG-SS-305 (7.0-7.5)	FROG-SS-306 (0.0-2.0)
Metals																									
aluminum	7429-90-5	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
antimony	7440-36-0	27	27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
arsenic	7440-38-2	29	29	**11.0**	**9.17**	**7.70**	**10.1**	**7.28**	**9.78**	**5.10**	**3.89**	**2.26**	**3.13**	**7.56**	**12.4**	**8.07**	**5.83**	**8.81**	**9.63**	**11.9**	**9.72**	**24.3**	**9.07**	**10.7**	**9.72**
barium	7440-39-3	8,200	8,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
beryllium	7440-41-7	320	320	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cadmium	7440-43-9	38	38	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
calcium	7440-70-2	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, total	7440-47-3	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, trivalent	16065-83-1	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, hexavalent	18540-29-9	190	190	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cobalt	7440-48-4	45	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
copper	7440-50-8	43,000	43,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
iron	7439-89-6	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
lead	7439-92-1	450	450	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
magnesium	7439-95-4	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
manganese	7439-96-5	2,000	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
mercury	7439-97-6	10	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
nickel	7440-02-0	650	650	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
potassium	7440-09-7	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
selenium	7782-49-2	26	26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
silver	7440-22-4	84	84	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sodium	7440-23-5	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
thallium	7440-28-0	14	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
vanadium	7440-62-2	17,000	49,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
zinc	7440-66-6	12,000	12,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Free Cyanide																									
cyanide, free	57-12-5	200	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix D3(a): Used Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results - Inorganics

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-306 (3.0-3.5)	FROG-SS-307 (0.0-2.0)	FROG-SS-307 (8.0-8.5)	FROG-SS-308 (0.0-2.0)	FROG-SS-308 (6.5-7.0)	FROG-SS-309 (0.0-2.0)	FROG-SS-309 (4.0-4.5)	FROG-SS-310 (0.0-2.0)	FROG-SS-310 (4.5-5.0)
Metals												
aluminum	7429-90-5	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
antimony	7440-36-0	27	27	NA	NA	NA	NA	NA	NA	NA	NA	NA
arsenic	7440-38-2	29	29	**8.81**	**10.1**	**13.1**	**8.97**	**10.9**	**9.57**	**5.78**	**5.36**	**4.76**
barium	7440-39-3	8,200	8,200	NA	NA	NA	NA	NA	NA	NA	NA	NA
beryllium	7440-41-7	320	320	NA	NA	NA	NA	NA	NA	NA	NA	NA
cadmium	7440-43-9	38	38	NA	NA	NA	NA	NA	NA	NA	NA	NA
calcium	7440-70-2	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, total	7440-47-3	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, trivalent	16065-83-1	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, hexavalent	18540-29-9	190	190	NA	NA	NA	NA	NA	NA	NA	NA	NA
cobalt	7440-48-4	45	130	NA	NA	NA	NA	NA	NA	NA	NA	NA
copper	7440-50-8	43,000	43,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
iron	7439-89-6	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
lead	7439-92-1	450	450	NA	NA	NA	NA	NA	NA	NA	NA	NA
magnesium	7439-95-4	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
manganese	7439-96-5	2,000	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
mercury	7439-97-6	10	10	NA	NA	NA	NA	NA	NA	NA	NA	NA
nickel	7440-02-0	650	650	NA	NA	NA	NA	NA	NA	NA	NA	NA
potassium	7440-09-7	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
selenium	7782-49-2	26	26	NA	NA	NA	NA	NA	NA	NA	NA	NA
silver	7440-22-4	84	84	NA	NA	NA	NA	NA	NA	NA	NA	NA
sodium	7440-23-5	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
thallium	7440-28-0	14	14	NA	NA	NA	NA	NA	NA	NA	NA	NA
vanadium	7440-62-2	17,000	49,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
zinc	7440-66-6	12,000	12,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Free Cyanide												
cyanide, free	57-12-5	200	200	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix D3(b): Used Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results - Volatile Organic Compounds

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-101 (0-2)	FROG-SS-101 (3-5)	FROG-SS-102 (0-2)	FROG-SS-102 (19-21)	FROG-SS-103 (0-2)	FROG-SS-103 (28-30)	FROG-SS-104 (0-2)	FROG-SS-104 (10-11.5)	FROG-SS-105 (1-3)	FROG-SS-105 (13-15)	FROG-SS-108 (1-3)	FROG-SS-108 (5.5-7.5)	FROG-SS-DUP-101	FROG-SS-109 (2.5-4.5)	FROG-SS-109 (8-10)	FROG-SS-110 (1.5-3.5)	FROG-SS-110 (5-7)	FROG-SS-111 (0-2)	FROG-SS-111 (10-11)	FROG-SS-112 (0-2)	FROG-SS-112 (7-9)	FROG-SS-115 (0-2)
Volatile Organic Compounds																									
dichlorodifluoromethane	75-71-8	100	100	<0.011	<0.011	<0.0095	<0.010	<0.013	<0.014	<0.012	<0.010	<0.011	<0.013	<0.012	<0.013	<0.014	<0.010	<0.011	<0.0099	<0.0079	<0.010	<0.012	<0.010	<0.010	<0.013
chloromethane	74-87-3	3	3	<0.0044	<0.0044	<0.0038	<0.0042	<0.0051	<0.0056	<0.0046	<0.0041	<0.0044	<0.0053	<0.0048	<0.0054	<0.0054	<0.0042	<0.0044	<0.004	<0.0032	<0.0041	<0.0050	<0.0040	<0.0041	<0.0053
vinyl chloride	75-01-4	0.2	0.2	<0.0011	<0.0011	<0.00095	<0.0010	<0.0013	<0.0014	<0.0012	<0.0010	<0.0011	<0.0013	<0.0012	<0.0013	<0.0014	<0.001	<0.0011	<0.00099	<0.00079	<0.0010	<0.0012	<0.0010	<0.0010	<0.0013
bromomethane	74-83-9	1	1	<0.0022	<0.0022	<0.0019	<0.0021	<0.0026	<0.0028	<0.0023	<0.0021	<0.0022	<0.0026	<0.0024	<0.0027	<0.0027	<0.0021	<0.0022	<0.0020	<0.0016	<0.002	<0.0025	<0.0020	<0.0020	<0.0027
chloroethane	75-00-3	2,100	8,800	<0.0022	<0.0022	<0.0019	<0.0021	<0.0026	<0.0028	<0.0023	<0.0021	<0.0022	<0.0026	<0.0024	<0.0027	<0.0027	<0.0021	<0.0022	<0.0020	<0.0016	<0.0020	<0.0025	<0.0020	<0.0020	<0.0027
trichlorofluoromethane	75-69-4	200	200	<0.0044	<0.0044	<0.0038	<0.0042	<0.0051	<0.0056	<0.0046	<0.0041	<0.0044	<0.0053	<0.0048	<0.0054	<0.0054	<0.0042	<0.0044	<0.0040	<0.0032	<0.0041	<0.005	<0.0040	<0.0041	<0.0053
1,1-dichloroethene	75-35-4	0.7	0.7	<0.0011	<0.0011	<0.00095	<0.0010	<0.0013	<0.0014	<0.0012	<0.0010	<0.0011	<0.0013	<0.0012	<0.0013	<0.0014	<0.0010	<0.0011	<0.00099	<0.00079	<0.0010	<0.0012	<0.0010	<0.0010	<0.0013
carbon disulfide	75-15-0	150	620	<0.011	<0.011	<0.0095	<0.010	<0.013	<0.014	<0.012	<0.010	<0.011	<0.013	<0.012	<0.013	<0.014	<0.010	<0.011	<0.0099	<0.0079	<0.010	<0.012	<0.010	<0.010	<0.013
1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	3,400	10,000	<0.0044	<0.0044	<0.0038	<0.0042	<0.0051	<0.0056	<0.0046	<0.0041	<0.0044	<0.0053	<0.0048	<0.0054	<0.0054	<0.0042	<0.0044	<0.0040	<0.0032	<0.0041	<0.0050	<0.0040	<0.0041	<0.0053
methylene chloride	75-09-2	0.5	0.5	<0.0056	<0.0055	<0.0048	<0.0053	<0.0064	<0.007	<0.0058	<0.0052	<0.0054	<0.0066	<0.0061	<0.0067	<0.0068	<0.0052	<0.0056	<0.0050	<0.0040	<0.0051	<0.0063	<0.0050	<0.0051	<0.0067
acetone	67-64-1	3,100	8,800	<0.028	<0.027	**0.056**	<0.026	<0.032	0.023J	<0.029	<0.026	**0.064**	0.021J	<0.030	<0.033	<0.034	<0.026	<0.028	<0.025	**0.026**	<0.026	<0.031	<0.025	<0.026	<0.033
trans-1,2-dichloroethene	156-60-5	10	10	<0.0017	<0.0016	<0.0014	<0.0016	<0.0019	<0.0021	<0.0017	<0.0016	<0.0016	<0.0020	<0.0018	<0.0020	<0.002	<0.0016	<0.0017	<0.0015	<0.0012	<0.0015	<0.0019	<0.0015	<0.0015	<0.0020
methyl acetate	79-20-9	3,500	9,700	<0.0044	<0.0044	<0.0038	<0.0042	<0.0051	<0.0056	<0.0046	<0.0041	**0.0074**	<0.0053	<0.0048	<0.0054	0.0018J	<0.0042	<0.0044	<0.0040	<0.0032	<0.0041	<0.0050	<0.0040	<0.0041	<0.0053
methyl tertiary butyl ether (MTBE)	1634-04-4	2	2	<0.0022	<0.0022	<0.0019	<0.0021	<0.0026	<0.0028	<0.0023	<0.0021	<0.0022	<0.0026	<0.0024	<0.0027	<0.0027	<0.0021	<0.0022	<0.0020	<0.0016	<0.0020	<0.0025	<0.0020	<0.0020	<0.0027
1,1-dichloroethane	75-34-3	3.1	16	<0.0011	<0.0011	<0.00095	<0.001	<0.0013	<0.0014	<0.0012	<0.001	<0.0011	<0.0013	<0.0012	<0.0013	<0.0014	<0.0010	<0.0011	0.00014J	0.00053J	<0.0010	<0.0012	<0.0010	<0.0010	<0.0013
cis-1,2-dichloroethene	156-59-2	7	7	<0.0011	<0.0011	<0.00095	<0.001	<0.0013	<0.0014	<0.0012	<0.001	<0.0011	<0.0013	<0.0012	<0.0013	<0.0014	<0.0010	<0.0011	<0.00099	<0.00079	<0.0010	<0.0012	<0.0010	<0.0010	<0.0013
1,2-dichloroethene, total	540-59-0	-	-	<0.0011	<0.0011	<0.00095	<0.001	<0.0013	<0.0014	<0.0012	<0.001	<0.0011	<0.0013	<0.0012	<0.0013	<0.0014	<0.0010	<0.0011	<0.00099	<0.00079	<0.0010	<0.0012	<0.0010	<0.0010	<0.0013
cyclohexane	110-82-7	1,700	6,900	<0.011	<0.011	<0.0095	<0.010	<0.013	<0.014	<0.012	<0.010	0.0012J	<0.013	<0.012	<0.013	<0.014	<0.010	<0.011	<0.0099	<0.0079	<0.010	<0.012	<0.010	<0.010	<0.013
bromochloromethane	74-97-5	9	9	<0.0022	<0.0022	<0.0019	<0.0021	<0.0026	<0.0028	<0.0023	<0.0021	<0.0022	<0.0026	<0.0024	<0.0027	<0.0027	<0.0021	<0.0022	<0.0020	<0.0016	<0.0020	<0.0025	<0.0020	<0.0020	<0.0027
chloroform	67-66-3	8	8	0.00018J	0.00017J	0.00016J	0.00040J	0.00031JB	<0.0021	0.00025JB	0.00023JB	0.00024JB	0.00026JB	0.00022JB	0.00030JB	0.00030JB	0.00020JB	0.00019JB	0.00018JB	0.00015JB	<0.0015	<0.0019	<0.0015	<0.0015	<0.0020
carbon tetrachloride	56-23-5	0.5	0.5	<0.0011	<0.0011	<0.00095	<0.001	<0.0013	<0.0014	<0.0012	<0.001	<0.0011	<0.0013	<0.0012	<0.0013	<0.0014	<0.0010	<0.0011	<0.00099	<0.00079	<0.0010	<0.0012	<0.0010	<0.0010	<0.0013
1,1,1-trichloroethane	71-55-6	20	20	<0.00056	<0.00055	<0.00048	<0.00053	<0.00064	<0.0007	<0.00058	<0.00052	<0.00054	<0.00066	<0.00061	<0.00067	<0.00068	<0.00052	<0.00056	<0.0005	<0.00040	<0.00051	<0.00063	<0.00050	<0.00051	<0.00067
2-butanone	78-93-3	400	400	<0.011	<0.011	<0.0095	<0.010	<0.013	0.0056J	<0.012	<0.010	**0.020**	<0.013	<0.012	<0.013	<0.014	<0.010	<0.011	<0.0099	0.0064J	<0.010	<0.012	<0.010	<0.010	<0.013
benzene	71-43-2	0.5	0.5	<0.00056	<0.00055	<0.00048	<0.00053	<0.00064	0.00061J	<0.00058	<0.00052	**0.0024**	0.00027J	<0.00061	<0.00067	<0.00068	<0.00052	<0.00056	**0.0011**	**0.0035**	<0.00051	<0.00063	<0.00050	<0.00051	<0.00067
1,2-dichloroethane	107-06-02	0.5	0.5	<0.0011	<0.0011	<0.00095	<0.001	<0.0013	<0.0014	<0.0012	<0.001	<0.0011	<0.0013	<0.0012	<0.0013	<0.0014	<0.0010	<0.0011	<0.00099	<0.00079	<0.0010	<0.0012	<0.0010	<0.0010	<0.0013
methyl cyclohexane	108-87-2	-	-	<0.0044	<0.0044	<0.0038	<0.0042	<0.0051	<0.0056	<0.0046	<0.0041	**0.0048**	0.0024J	<0.0048	<0.0054	<0.0054	<0.0042	<0.0044	<0.0040	0.0013J	<0.0041	<0.0050	<0.0040	<0.0041	<0.0053
trichloroethene	79-01-6	0.5	0.5	<0.00056	<0.00055	<0.00048	<0.00053	<0.00064	<0.0007	<0.00058	<0.00052	<0.00054	<0.00066	<0.00061	<0.00067	<0.00068	<0.00052	<0.00056	<0.00050	<0.00040	<0.00051	<0.00063	<0.00050	<0.00051	<0.00067
1,2-dichloropropane	78-87-5	0.5	0.5	<0.0011	<0.0011	<0.00095	<0.001	<0.0013	<0.0014	<0.0012	<0.001	<0.0011	<0.0013	<0.0012	<0.0013	<0.0014	<0.0010	<0.0011	<0.00099	<0.00079	<0.0010	<0.0012	<0.0010	<0.0010	<0.0013
bromodichloromethane	75-27-4	8	8	<0.00056	<0.00055	<0.00048	<0.00053	<0.00064	<0.0007	<0.00058	<0.00052	<0.00054	<0.00066	<0.00061	<0.00067	<0.00068	<0.00052	<0.00056	<0.0005	<0.0004	<0.00051	<0.00063	<0.00050	<0.00051	<0.00067
1,4-dioxane	123-91-1	0.65	2.7	<0.089	<0.087	<0.076	<0.084	<0.10	<0.11	<0.092	<0.083	<0.087	<0.10	<0.097	<0.11	<0.11	<0.084	<0.089	<0.079	<0.063	<0.082	<0.10	<0.080	<0.082	<0.11
cis-1,3-dichloropropene	10061-01-5	-	-	<0.00056	<0.00055	<0.00048	<0.00053	<0.00064	<0.0007	<0.00058	<0.00052	<0.00054	<0.00066	<0.00061	<0.00067	<0.00068	<0.00052	<0.00056	<0.0005	<0.00040	<0.00051	<0.00063	<0.00050	<0.00051	<0.00067
toluene	108-88-3	100	100	<0.0011	<0.0011	<0.00095	<0.001	<0.0013	<0.0014	<0.0012	<0.0010	**0.0022**	<0.0013	<0.0012	<0.0013	<0.0014	<0.0010	<0.0011	0.00071J	**0.0014**	<0.0010	<0.0012	<0.0010	<0.0010	<0.0013
4-methyl-2-pentanone	108-10-1	280	780	<0.011	<0.011	<0.0095	<0.010	<0.013	<0.014	<0.012	<0.010	<0.011	<0.013	<0.012	<0.013	<0.014	<0.010	<0.011	<0.0099	<0.0079	<0.010	<0.012	<0.010	<0.010	<0.013
tetrachloroethene	127-18-4	0.5	0.5	<0.00056	<0.00055	<0.00048	<0.00053	<0.00064	0.00032J	<0.00058	<0.00052	<0.00054	<0.00066	<0.00061	<0.00067	<0.00068	<0.00052	<0.00056	<0.00050	<0.00040	<0.00051	<0.00063	<0.00050	<0.00051	<0.00067
trans-1,3-dichloropropene	10061-02-6	-	-	<0.0011	<0.0011	<0.00095	<0.0010	<0.0013	<0.0014	<0.0012	<0.0010	<0.0011	<0.0013	<0.0012	<0.0013	<0.0014	<0.0010	<0.0011	<0.00099	<0.00079	<0.0010	<0.0012	<0.0010	<0.0010	<0.0013
1,3-dichloropropene, total	542-75-6	0.65	2.7	<0.00056	<0.00055	<0.00048	<0.00053	<0.00064	<0.0007	<0.00058	<0.00052	<0.00054	<0.00066	<0.00061	<0.00067	<0.00068	<0.00052	<0.00056	<0.0005	<0.0004	<0.00051	<0.00063	<0.00050	<0.00051	<0.00067
1,1,2-trichloroethane	79-00-5	0.5	0.5	<0.0011	<0.0011	<0.00095	<0.0010	<0.0013	<0.0014	<0.0012	<0.0010	<0.0011	<0.0013	<0.0012	<0.0013	<0.0014	<0.0010	<0.0011	<0.00099	<0.00079	<0.0010	<0.0012	<0.0010	<0.0010	<0.0013
dibromochloromethane	124-48-1	8	8	<0.0011	<0.0011	<0.00095	<0.0010	<0.0013	<0.0014	<0.0012	<0.0010	<0.0011	<0.0013	<0.0012	<0.0013	<0.0014	<0.0010	<0.0011	<0.00099	<0.00079	<0.0010	<0.0012	<0.0010	<0.0010	<0.0013
1,2-dibromoethane	106-93-4	0.005	0.005	<0.00056	<0.00055	<0.00048	<0.00053	<0.00064	<0.0007	<0.00058	<0.00052	<0.00054	<0.00066	<0.00061	<0.00067	<0.00068	<0.00052	<0.00056	<0.00050	<0.00040	<0.00051	<0.00063	<0.00050	<0.00051	<0.00067
2-hexanone	591-78-6	6.3	26	<0.011	<0.011	<0.0095	<0.010	<0.013	<0.014	<0.012	<0.010	<0.011	<0.013	<0.012	<0.013	<0.014	<0.010	<0.011	<0.0099	<0.0079	<0.010	<0.012	<0.010	<0.010	<0.013
chlorobenzene	108-90-7	10	10	<0.00056	<0.00055	<0.00048	<0.00053	<0.00064	<0.0007	<0.00058	<0.00052	<0.00054	<0.00066	<0.00061	<0.00067	<0.00068	<0.00052	<0.00056	<0.00050	<0.0004	<0.00051	<0.00063	<0.00050	<0.00051	<0.00067
ethylbenzene	100-41-4	70	70	<0.0011	<0.0011	<0.00095	<0.001	<0.0013	0.00057J	<0.0012	<0.0010	**0.0017**	<0.0013	<0.0012	<0.0013	<0.0014	<0.0010	<0.0011	0.00024J	0.00042J	<0.0010	<0.0012	<0.0010	<0.0010	<0.0013
p/m-xylene	108-38-3/106-42-3	-	-	<0.0022	<0.0022	<0.0019	<0.0021	<0.0026	0.0010J	<0.0023	<0.0021	**0.0046**	<0.0026	<0.0024	<0.0027	<0.0027	<0.0021	<0.0022	<0.0020	0.00044J	<0.0020	<0.0025	<0.0020	<0.0020	<0.0027
o-xylene	95-47-6	-	-	<0.0011	<0.0011	<0.00095	<0.001	<0.0013	0.00047J	<0.0012	<0.0010	**0.0011**	<0.0013	<0.0012	<0.0013	<0.0014	<0.0010	<0.0011	<0.00099	0.00027J	<0.0010	<0.0012	<0.0010	<0.0010	<0.0013
xylenes, total	1330-20-7	1,000	1,000	<0.0011	<0.0011	<0.00095	<0.001	<0.0013	0.0015J	<0.0012	<0.0010	**0.0057**	<0.0013	<0.0012	<0.0013	<0.0014	<0.0010	<0.0011	<0.00099	0.00071J	<0.0010	<0.0012	<0.0010	<0.0010	<0.0013
styrene	100-42-5	24	24	<0.0011	<0.0011	<0.00095	<0.001	<0.0013	<0.0014	<0.0012	<0.0010	<0.0011	<0.0013	<0.0012	<0.0013	<0.0014	<0.0010	<0.0011	<0.00099	<0.00079	<0.0010	<0.0012	<0.0010	<0.0010	<0.0013

Appendix D3(b): Used Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results - Volatile Organic Compounds

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-101 (0-2)	FROG-SS-101 (3-5)	FROG-SS-102 (0-2)	FROG-SS-102 (19-21)	FROG-SS-103 (0-2)	FROG-SS-103 (28-30)	FROG-SS-104 (0-2)	FROG-SS-104 (10-11.5)	FROG-SS-105 (1-3)	FROG-SS-105 (13-15)	FROG-SS-108 (1-3)	FROG-SS-108 (5.5-7.5)	FROG-SS-DUP-101	FROG-SS-109 (2.5-4.5)	FROG-SS-109 (8-10)	FROG-SS-110 (1.5-3.5)	FROG-SS-110 (5-7)	FROG-SS-111 (0-2)	FROG-SS-111 (10-11)	FROG-SS-112 (0-2)	FROG-SS-112 (7-9)	FROG-SS-115 (0-2)
bromoform	75-25-2	8	8	<0.0044	<0.0044	<0.0038	<0.0042	<0.0051	<0.0056	<0.0046	<0.0041	<0.0044	<0.0053	<0.0048	<0.0054	<0.0054	<0.0042	<0.0044	<0.0040	<0.0032	<0.0041	<0.0050	<0.0040	<0.0041	<0.0053
isopropylbenzene	98-82-8	600	2,500	<0.0011	<0.0011	<0.00095	<0.0010	<0.0013	0.00042J	<0.0012	<0.0010	0.00044J	0.00055J	<0.0012	<0.0013	<0.0014	<0.0010	<0.0011	<0.00099	<0.00079	<0.0010	<0.0012	<0.0010	<0.0010	<0.0013
1,1,2,2-tetrachloroethane	79-34-5	0.084	0.43	<0.00056	<0.00055	<0.00048	<0.00053	<0.00064	<0.0007	<0.00058	<0.00052	<0.00054	<0.00066	<0.00061	<0.00067	<0.00068	<0.00052	<0.00056	<0.00050	<0.0004	<0.00051	<0.00063	<0.00050	<0.00051	<0.00067
1,3-dichlorobenzene	541-73-1	61	61	<0.0022	<0.0022	<0.0019	<0.0021	<0.0026	<0.0028	<0.0023	<0.0021	<0.0022	<0.0026	<0.0024	<0.0027	<0.0027	<0.0021	<0.0022	<0.0020	<0.0016	<0.0020	<0.0025	<0.0020	<0.0020	<0.0027
1,4-dichlorobenzene	106-46-7	10	10	<0.0022	<0.0022	<0.0019	<0.0021	<0.0026	<0.0028	<0.0023	<0.0021	<0.0022	<0.0026	<0.0024	<0.0027	<0.0027	<0.0021	<0.0022	<0.0020	<0.0016	<0.0020	<0.0025	<0.0020	<0.0020	<0.0027
1,2-dichlorobenzene	95-50-1	60	60	<0.0022	<0.0022	<0.0019	<0.0021	<0.0026	<0.0028	<0.0023	<0.0021	<0.0022	<0.0026	<0.0024	<0.0027	<0.0027	<0.0021	<0.0022	<0.0020	<0.0016	<0.0020	<0.0025	<0.0020	<0.0020	<0.0027
1,2-dibromo-3-chloropropane	96-12-8	0.02	0.02	<0.0033	<0.0033	<0.0028	<0.0032	<0.0038	<0.0042	<0.0034	<0.0031	<0.0033	<0.0040	<0.0036	<0.0040	<0.0041	<0.0031	<0.0033	<0.0030	<0.0024	<0.0031	<0.0038	<0.0030	<0.0031	<0.0040
1,2,4-trichlorobenzene	120-82-1	27	27	<0.0022	<0.0022	<0.0019	<0.0021	<0.0026	<0.0028	<0.0023	<0.0021	<0.0022	<0.0026	<0.0024	<0.0027	<0.0027	<0.0021	<0.0022	<0.0020	<0.0016	<0.0020	<0.0025	<0.0020	<0.0020	<0.0027
1,2,3-trichlorobenzene	87-61-6	-	-	<0.0022	<0.0022	<0.0019	<0.0021	<0.0026	<0.0028	<0.0023	<0.0021	<0.0022	<0.0026	<0.0024	<0.0027	<0.0027	<0.0021	<0.0022	<0.0020	<0.0016	<0.0020	<0.0025	<0.0020	<0.0020	<0.0027

Appendix D3(b): Used Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results - Volatile Organic Compounds

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-115 (6.5-8.5)	FROG-SS-116 (0-2)	FROG-SS-116 (18.5-20.5)	FROG-SS-117 (0-2)	FROG-SS-DUP-103	FROG-SS-117 (11-13)	FROG-SS-118 (0-2)	FROG-SS-118 (10-12)	FROG-SS-DUP-102	FROG-SS-119 (0-0.5)	FROG-SS-119 (0.5-1)	FROG-SS-120 (0-2)	FROG-SS-120 (2-3.5)	FROG-SS-121 (0-2)	FROG-SS-121 (20-21.5)	FROG-SS-122 (1.5-3.5)	FROG-SS-122 (30-32)	FROG-SS-123 (1-3)	FROG-SS-123 (17-19)	FROG-SS-DUP-104	FROG-SS-127 (FLOOR)
Volatile Organic Compounds																								
dichlorodifluoromethane	75-71-8	100	100	<0.014	<0.0097	<0.011	<0.011	<0.010	<0.0097	<0.011	<0.014	<0.011	<0.0080	<0.0097	<0.010	<0.0095	<0.010	<0.012	<0.010	<0.012	<0.0097	<0.011	<0.010	<0.0064
chloromethane	74-87-3	3	3	<0.0057	<0.0039	<0.0042	<0.0043	<0.0041	<0.0039	<0.0044	<0.0058	<0.0046	<0.0032	<0.0039	<0.0042	<0.0038	<0.0041	<0.005	<0.0042	<0.0049	<0.0039	<0.0043	<0.0041	<0.0026
vinyl chloride	75-01-4	0.2	0.2	<0.0014	<0.00097	<0.0011	<0.0011	<0.0010	<0.00097	<0.0011	<0.0014	<0.0011	<0.0008	<0.00097	<0.0010	<0.00095	<0.0010	<0.0012	<0.0010	<0.0012	<0.00097	<0.0011	<0.0010	<0.00064
bromomethane	74-83-9	1	1	<0.0028	<0.0019	<0.0021	<0.0021	<0.0020	<0.0019	<0.0022	<0.0029	<0.0023	<0.0016	<0.0019	<0.0021	<0.0019	<0.0021	<0.0025	<0.0021	<0.0024	<0.0019	<0.0022	<0.0020	<0.0013
chloroethane	75-00-3	2,100	8,800	<0.0028	<0.0019	<0.0021	<0.0021	<0.0020	<0.0019	<0.0022	<0.0029	<0.0023	<0.0016	<0.0019	<0.0021	<0.0019	<0.0021	<0.0025	<0.0021	<0.0024	<0.0019	<0.0022	<0.0020	<0.0013
trichlorofluoromethane	75-69-4	200	200	<0.0057	<0.0039	<0.0042	<0.0043	<0.0041	<0.0039	<0.0044	<0.0058	<0.0046	<0.0032	<0.0039	<0.0042	<0.0038	<0.0041	<0.005	<0.0042	<0.0049	<0.0039	<0.0043	<0.0041	<0.0026
1,1-dichloroethene	75-35-4	0.7	0.7	<0.0014	<0.00097	<0.0011	<0.0011	<0.0010	<0.00097	<0.0011	<0.0014	<0.0011	<0.0008	<0.00097	<0.0010	<0.00095	<0.0010	<0.0012	<0.0010	<0.0012	<0.00097	<0.0011	<0.0010	<0.00064
carbon disulfide	75-15-0	150	620	<0.014	<0.0097	<0.011	<0.011	<0.010	<0.0097	<0.011	<0.014	<0.011	<0.008	<0.0097	<0.010	<0.0095	<0.010	<0.012	<0.010	<0.012	<0.0097	<0.011	<0.010	<0.0064
1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	3,400	10,000	<0.0057	<0.0039	<0.0042	<0.0043	<0.0041	<0.0039	<0.0044	<0.0058	<0.0046	<0.0032	<0.0039	<0.0042	<0.0038	<0.0041	<0.005	<0.0042	<0.0049	<0.0039	<0.0043	<0.0041	<0.0026
methylene chloride	75-09-2	0.5	0.5	<0.0071	<0.0049	<0.0053	<0.0053	<0.0051	<0.0048	<0.0055	<0.0072	<0.0057	<0.0040	<0.0048	<0.0052	<0.0047	<0.0052	<0.0063	<0.0053	<0.0061	<0.0048	<0.0054	<0.0051	<0.0032
acetone	67-64-1	3,100	8,800	<0.036	<0.024	<0.027	<0.027	<0.025	<0.024	<0.028	<0.036	<0.028	<0.020	0.00077J	<0.026	0.022J	<0.026	<0.031	0.024J	<0.031	<0.024	0.017J	<0.026	**0.030**
trans-1,2-dichloroethene	156-60-5	10	10	<0.0021	<0.0015	<0.0016	<0.0016	<0.0015	<0.0014	<0.0017	<0.0022	<0.0017	<0.0012	<0.0014	<0.0016	<0.0014	<0.0015	<0.0019	<0.0016	<0.0018	<0.0014	<0.0016	<0.0015	<0.00096
methyl acetate	79-20-9	3,500	9,700	<0.0057	<0.0039	<0.0042	<0.0043	<0.0041	<0.0039	<0.0044	<0.0058	<0.0046	<0.0032	<0.0039	<0.0042	<0.0038	<0.0041	<0.005	<0.0042	<0.0049	<0.0039	<0.0043	<0.0041	<0.0026
methyl tertiary butyl ether (MTBE)	1634-04-4	2	2	<0.0028	<0.0019	<0.0021	<0.0021	<0.0020	<0.0019	<0.0022	<0.0029	<0.0023	<0.0016	<0.0019	<0.0021	<0.0019	<0.0021	<0.0025	<0.0021	<0.0024	<0.0019	<0.0022	<0.0020	<0.0013
1,1-dichloroethane	75-34-3	3.1	16	<0.0014	<0.00097	<0.0011	<0.0011	<0.0010	<0.00097	<0.0011	<0.0014	<0.0011	<0.00080	<0.00097	<0.0010	<0.00095	<0.0010	<0.0012	<0.0010	<0.0012	<0.00097	<0.0011	<0.0010	<0.00064
cis-1,2-dichloroethene	156-59-2	7	7	<0.0014	<0.00097	<0.0011	<0.0011	<0.0010	<0.00097	<0.0011	<0.0014	<0.0011	<0.00080	<0.00097	<0.0010	<0.00095	<0.0010	<0.0012	<0.0010	<0.0012	<0.00097	<0.0011	<0.0010	<0.00064
1,2-dichloroethene, total	540-59-0	-	-	<0.0014	<0.00097	<0.0011	<0.0011	<0.0010	<0.00097	<0.0011	<0.0014	<0.0011	<0.00080	<0.00097	<0.0010	<0.00095	<0.0010	<0.0012	<0.0010	<0.0012	<0.00097	<0.0011	<0.0010	<0.00064
cyclohexane	110-82-7	1,700	6,900	<0.014	<0.0097	<0.011	<0.011	<0.010	<0.0097	<0.011	<0.014	<0.011	<0.0080	<0.0097	<0.010	<0.0095	<0.010	<0.012	<0.010	<0.012	<0.0097	<0.011	0.00073J	<0.0064
bromochloromethane	74-97-5	9	9	<0.0028	<0.0019	<0.0021	<0.0021	<0.0020	<0.0019	<0.0022	<0.0029	<0.0023	<0.0016	<0.0019	<0.0021	<0.0019	<0.0021	<0.0025	<0.0021	<0.0024	<0.0019	<0.0022	<0.0020	<0.0013
chloroform	67-66-3	8	8	0.00026J	0.00017J	<0.0016	0.00021J	0.00023J	0.00026J	<0.0017	<0.0022	0.00021J	0.00023J	<0.0014	<0.0016	<0.0014	<0.0015	<0.0019	0.00030J	0.00034J	0.00027J	0.00030J	0.00026J	0.00014J
carbon tetrachloride	56-23-5	0.5	0.5	<0.0014	<0.00097	<0.0011	<0.0011	<0.0010	<0.00097	<0.0011	<0.0014	<0.0011	<0.00080	<0.00097	<0.001	<0.00095	<0.0010	<0.0012	<0.0010	<0.0012	<0.00097	<0.0011	<0.0010	<0.00064
1,1,1-trichloroethane	71-55-6	20	20	<0.00071	<0.00049	<0.00053	<0.00053	<0.00051	<0.00048	<0.00055	<0.00072	<0.00057	<0.00040	<0.00048	<0.00052	<0.00047	<0.00052	<0.00063	<0.00053	<0.00061	<0.00048	<0.00054	<0.00051	<0.00032
2-butanone	78-93-3	400	400	<0.014	<0.0097	<0.011	<0.011	<0.010	<0.0097	<0.011	<0.014	<0.011	<0.0080	<0.0097	<0.010	<0.0095	<0.010	<0.012	0.0076J	<0.012	<0.0097	<0.011	<0.010	**0.014**
benzene	71-43-2	0.5	0.5	<0.00071	0.00016J	0.00020J	0.00029J	<0.00051	<0.00048	<0.00055	<0.00072	<0.00057	<0.00040	<0.00048	<0.00052	0.00025J	<0.00052	<0.00063	<0.00053	<0.00061	<0.00048	<0.00054	<0.00051	0.00012J
1,2-dichloroethane	107-06-02	0.5	0.5	<0.0014	<0.00097	<0.0011	<0.0011	<0.0010	<0.00097	<0.0011	<0.0014	<0.0011	<0.00080	<0.00097	<0.0010	<0.00095	<0.0010	<0.0012	<0.0010	<0.0012	<0.00097	<0.0011	<0.0010	<0.00064
methyl cyclohexane	108-87-2	-	-	<0.0057	<0.0039	<0.0042	<0.0043	<0.0041	<0.0039	<0.0044	<0.0058	<0.0046	<0.0032	<0.0039	<0.0042	<0.0038	<0.0041	<0.005	<0.0042	<0.0049	<0.0039	<0.0043	**0.0047**	<0.0026
trichloroethene	79-01-6	0.5	0.5	<0.00071	<0.00049	<0.00053	<0.00053	<0.00051	<0.00048	<0.00055	<0.00072	<0.00057	<0.00040	<0.00048	<0.00052	<0.00047	<0.00052	<0.00063	<0.00053	<0.00061	<0.00048	<0.00054	<0.00051	<0.00032
1,2-dichloropropane	78-87-5	0.5	0.5	<0.0014	<0.00097	<0.0011	<0.0011	<0.0010	<0.00097	<0.0011	<0.0014	<0.0011	<0.00080	<0.00097	<0.0010	<0.00095	<0.0010	<0.0012	<0.0010	<0.0012	<0.00097	<0.0011	<0.0010	<0.00064
bromodichloromethane	75-27-4	8	8	<0.00071	<0.00049	<0.00053	<0.00053	<0.00051	<0.00048	<0.00055	<0.00072	<0.00057	<0.00040	<0.00048	<0.00052	<0.00047	<0.00052	<0.00063	<0.00053	<0.00061	<0.00048	<0.00054	<0.00051	<0.00032
1,4-dioxane	123-91-1	0.65	2.7	<0.11	<0.078	<0.085	<0.085	<0.081	<0.078	<0.089	<0.12	<0.091	<0.064	<0.077	<0.083	<0.076	<0.082	<0.10	<0.084	<0.098	<0.077	<0.087	<0.082	<0.051
cis-1,3-dichloropropene	10061-01-5	-	-	<0.00071	<0.00049	<0.00053	<0.00053	<0.00051	<0.00048	<0.00055	<0.00072	<0.00057	<0.00040	<0.00048	<0.00052	<0.00047	<0.00052	<0.00063	<0.00053	<0.00061	<0.00048	<0.00054	<0.00051	<0.00032
toluene	108-88-3	100	100	<0.0014	<0.00097	<0.0011	<0.0011	<0.0010	<0.00097	<0.0011	<0.0014	<0.0011	<0.00080	<0.00097	<0.0010	<0.00095	<0.0010	<0.0012	<0.0010	<0.0012	<0.00097	<0.0011	<0.0010	<0.00064
4-methyl-2-pentanone	108-10-1	280	780	<0.014	<0.0097	<0.011	<0.011	<0.010	<0.0097	<0.011	<0.014	<0.011	<0.0080	<0.0097	<0.010	<0.0095	<0.010	<0.012	<0.010	<0.012	<0.0097	<0.011	<0.010	0.0017J
tetrachloroethene	127-18-4	0.5	0.5	<0.00071	<0.00049	<0.00053	<0.00053	<0.00051	<0.00048	<0.00055	<0.00072	<0.00057	<0.00040	<0.00048	<0.00052	<0.00047	<0.00052	<0.00063	**0.0014**	<0.00061	<0.00048	<0.00054	<0.00051	<0.00032
trans-1,3-dichloropropene	10061-02-6	-	-	<0.0014	<0.00097	<0.0011	<0.0011	<0.0010	<0.00097	<0.0011	<0.0014	<0.0011	<0.00080	<0.00097	<0.0010	<0.00095	<0.0010	<0.0012	<0.0010	<0.0012	<0.00097	<0.0011	<0.0010	<0.00064
1,3-dichloropropene, total	542-75-6	0.65	2.7	<0.00071	<0.00049	<0.00053	<0.00053	<0.00051	<0.00048	<0.00055	<0.00072	<0.00057	<0.00040	<0.00048	<0.00052	<0.00047	<0.00052	<0.00063	<0.00053	<0.00061	<0.00048	<0.00054	<0.00051	<0.00032
1,1,2-trichloroethane	79-00-5	0.5	0.5	<0.0014	<0.00097	<0.0011	<0.0011	<0.0010	<0.00097	<0.0011	<0.0014	<0.0011	<0.00080	<0.00097	<0.0010	<0.00095	<0.0010	<0.0012	<0.0010	<0.0012	<0.00097	<0.0011	<0.0010	<0.00064
dibromochloromethane	124-48-1	8	8	<0.0014	<0.00097	<0.0011	<0.0011	<0.0010	<0.00097	<0.0011	<0.0014	<0.0011	<0.00080	<0.00097	<0.0010	<0.00095	<0.0010	<0.0012	<0.0010	<0.0012	<0.00097	<0.0011	<0.0010	<0.00064
1,2-dibromoethane	106-93-4	0.005	0.005	<0.00071	<0.00049	<0.00053	<0.00053	<0.00051	<0.00048	<0.00055	<0.00072	<0.00057	<0.00040	<0.00048	<0.00052	<0.00047	<0.00052	<0.00063	<0.00053	<0.00061	<0.00048	<0.00054	<0.00051	<0.00032
2-hexanone	591-78-6	6.3	26	<0.014	<0.0097	<0.011	<0.011	<0.010	<0.0097	<0.011	<0.014	<0.011	<0.0080	<0.0097	<0.010	<0.0095	<0.010	<0.012	<0.01	<0.012	<0.0097	<0.011	<0.010	<0.0064
chlorobenzene	108-90-7	10	10	<0.00071	<0.00049	<0.00053	<0.00053	<0.00051	<0.00048	<0.00055	<0.00072	<0.00057	<0.00040	<0.00048	<0.00052	<0.00047	<0.00052	<0.00063	<0.00053	<0.00061	<0.00048	<0.00054	<0.00051	<0.00032
ethylbenzene	100-41-4	70	70	<0.0014	<0.00097	<0.0011	<0.0011	<0.0010	<0.00097	<0.0011	<0.0014	<0.0011	<0.00080	<0.00097	<0.0010	0.00017J	<0.0010	<0.0012	<0.0010	<0.0012	<0.00097	<0.0011	<0.0010	<0.00064
p/m-xylene	108-38-3/106-42-3	-	-	<0.0028	<0.0019	<0.0021	<0.0021	<0.0020	<0.0019	<0.0022	<0.0029	<0.0023	<0.0016	<0.0019	<0.0021	<0.0019	<0.0021	<0.0025	<0.0021	<0.0024	<0.0019	<0.0022	<0.0020	<0.0013
o-xylene	95-47-6	-	-	<0.0014	<0.00097	<0.0011	<0.0011	<0.0010	<0.00097	<0.0011	<0.0014	<0.0011	<0.00080	<0.00097	<0.0010	<0.00095	<0.0010	<0.0012	<0.0010	<0.0012	<0.00097	<0.0011	<0.0010	<0.00064
xylenes, total	1330-20-7	1,000	1,000	<0.0014	<0.00097	<0.0011	<0.0011	<0.0010	<0.00097	<0.0011	<0.0014	<0.0011	<0.00080	<0.00097	<0.0010	<0.00095	<0.0010	<0.0012	<0.0010	<0.0012	<0.00097	<0.0011	<0.0010	<0.00064
styrene	100-42-5	24	24	<0.0014	<0.00097	<0.0011	<0.0011	<0.0010	<0.00097	<0.0011	<0.0014	<0.0011	<0.00080	<0.00097	<0.0010	<0.00095	<0.0010	<0.0012	<0.0010	<0.0012	<0.00097	<0.0011	<0.0010	<0.00064

Appendix D3(b): Used Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results - Volatile Organic Compounds

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations		FROG-SS-115 (6.5-8.5)	FROG-SS-116 (0-2)	FROG-SS-116 (18.5-20.5)	FROG-SS-117 (0-2)	FROG-SS-DUP-103	FROG-SS-117 (11-13)	FROG-SS-118 (0-2)	FROG-SS-118 (10-12)	FROG-SS-DUP-102	FROG-SS-119 (0-0.5)	FROG-SS-119 (0.5-1)	FROG-SS-120 (0-2)	FROG-SS-120 (2-3.5)	FROG-SS-121 (0-2)	FROG-SS-121 (20-21.5)	FROG-SS-122 (1.5-3.5)	FROG-SS-122 (30-32)	FROG-SS-123 (1-3)	FROG-SS-123 (17-19)	FROG-SS-DUP-104	FROG-SS-127 (FLOOR)
		Used Aquifer Soil-to-Groundwater Residential	Used Aquifer Soil-to-Groundwater Non-Residential																					
bromoform	75-25-2	8	8	<0.0057	<0.0039	<0.0042	<0.0043	<0.0041	<0.0039	<0.0044	<0.0058	<0.0046	<0.0032	<0.0039	<0.0042	<0.0038	<0.0041	<0.0050	<0.0042	<0.0049	<0.0039	<0.0043	<0.0041	<0.0026
isopropylbenzene	98-82-8	600	2,500	<0.0014	<0.00097	<0.0011	<0.0011	<0.0010	<0.00097	<0.0011	<0.0014	<0.0011	<0.00080	<0.00097	<0.0010	<0.00095	<0.0010	<0.0012	<0.0010	<0.0012	<0.00097	<0.0011	**0.0025**	<0.00064
1,1,2,2-tetrachloroethane	79-34-5	0.084	0.43	<0.00071	<0.00049	<0.00053	<0.00053	<0.00051	<0.00048	<0.00055	<0.00072	<0.00057	<0.00040	<0.00048	<0.00052	<0.00047	<0.00052	<0.00063	<0.00053	<0.00061	<0.00048	<0.00054	<0.00051	<0.00032
1,3-dichlorobenzene	541-73-1	61	61	<0.0028	<0.0019	<0.0021	<0.0021	<0.0020	<0.0019	<0.0022	<0.0029	<0.0023	<0.0016	<0.0019	<0.0021	<0.0019	<0.0021	<0.0025	<0.0021	<0.0024	<0.0019	<0.0022	<0.0020	<0.0013
1,4-dichlorobenzene	106-46-7	10	10	<0.0028	<0.0019	<0.0021	<0.0021	<0.0020	<0.0019	<0.0022	<0.0029	<0.0023	<0.0016	<0.0019	<0.0021	<0.0019	<0.0021	<0.0025	<0.0021	<0.0024	<0.0019	<0.0022	<0.0020	<0.0013
1,2-dichlorobenzene	95-50-1	60	60	<0.0028	<0.0019	<0.0021	<0.0021	<0.0020	<0.0019	<0.0022	<0.0029	<0.0023	<0.0016	<0.0019	<0.0021	<0.0019	<0.0021	<0.0025	<0.0021	<0.0024	<0.0019	<0.0022	<0.0020	<0.0013
1,2-dibromo-3-chloropropane	96-12-8	0.02	0.02	<0.0043	<0.0029	<0.0032	<0.0032	<0.0030	<0.0029	<0.0033	<0.0043	<0.0034	<0.0024	<0.0029	<0.0031	<0.0028	<0.0031	<0.0038	<0.0032	<0.0037	<0.0029	<0.0032	<0.0031	<0.0019
1,2,4-trichlorobenzene	120-82-1	27	27	<0.0028	<0.0019	<0.0021	<0.0021	<0.0020	<0.0019	<0.0022	<0.0029	<0.0023	<0.0016	<0.0019	<0.0021	<0.0019	<0.0021	<0.0025	<0.0021	<0.0024	<0.0019	<0.0022	<0.0020	<0.0013
1,2,3-trichlorobenzene	87-61-6	-	-	<0.0028	<0.0019	<0.0021	<0.0021	<0.0020	<0.0019	<0.0022	<0.0029	<0.0023	<0.0016	<0.0019	<0.0021	<0.0019	<0.0021	<0.0025	<0.0021	<0.0024	<0.0019	<0.0022	<0.0020	<0.0013

Appendix D3(c): Used Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results - Semivolatile Organic Compounds

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-101 (0-2)	FROG-SS-101 (3-5)	FROG-SS-102 (0-2)	FROG-SS-102 (19-21)	FROG-SS-103 (0-2)	FROG-SS-103 (28-30)	FROG-SS-104 (0-2)	FROG-SS-104 (10-11.5)	FROG-SS-105 (1-3)	FROG-SS-105 (13-15)	FROG-SS-108 (1-3)	FROG-SS-108 (5.5-7.5)	FROG-SS-DUP-101	FROG-SS-109 (2.5-4.5)	FROG-SS-109 (8-10)	FROG-SS-110 (1.5-3.5)	FROG-SS-110 (5-7)	FROG-SS-111 (0-2)	FROG-SS-111 (10-11)	FROG-SS-112 (0-2)	FROG-SS-112 (7-9)	FROG-SS-115 (0-2)
Semivolatile Organic Compounds																									
benzaldehyde	100-52-7	-	-	<0.25	<0.27	<0.24	<0.27	0.076J	<0.31	<0.27	<0.27	<0.25	<0.29	<0.28	<0.28	<0.27	<0.26	<0.27	**0.23**	<0.23	<0.24	<0.27	<0.23	<0.24	<0.24
phenol	108-95-2	200	200	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.2	<0.17	0.033J	<0.18	<0.20	<0.18	<0.18	<0.18
bis(2-chloroethyl)ether	111-44-4	0.015	0.076	*<0.014	*<0.015	*<0.013	*<0.015	*<0.014	*<0.017	*<0.015	*<0.015	*<0.014	*<0.016	*<0.016	*<0.016	*<0.015	*<0.015	*<0.015	*<0.013	*<0.013	*<0.014	*<0.015	*<0.013	*<0.013	*<0.013
2-chlorophenol	95-57-8	4.4	20	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18	<0.18
2-methylphenol	95-48-7	170	490	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18	<0.18
bis(2-chloroisopropyl)ether	108-60-1	30	30	<0.23	<0.25	<0.22	<0.24	<0.23	<0.28	<0.25	<0.24	<0.22	<0.27	<0.25	<0.25	<0.25	<0.24	<0.24	<0.21	<0.20	<0.22	<0.25	<0.21	<0.21	<0.21
acetophenone	98-86-2	350	970	<0.19	<0.21	<0.18	<0.20	0.043J	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	0.13J	**0.18**	<0.18	<0.20	<0.18	<0.18	<0.18
1,4-dioxane	123-91-1	0.65	2.7	<0.029	<0.031	<0.027	<0.031	<0.028	<0.035	<0.031	<0.030	<0.028	<0.033	<0.032	<0.032	<0.031	<0.030	<0.030	<0.026	<0.026	<0.028	<0.031	<0.027	<0.027	<0.027
n-nitrosodi-n-propylamine	621-64-7	0.0025	0.013	<0.018*	*<0.020	*<0.017	*<0.020	<0.018*	*<0.022	*<0.020	*<0.019	*<0.018	*<0.021	*<0.020	*<0.020	*<0.020	*<0.019	*<0.019	*<0.016	*<0.016	*<0.018	*<0.020	*<0.017	*<0.017	*<0.017
3-methylphenol / 4-methylphenol	108-39-4 / 106-44-5	170 / 17	490 / 49	<0.28	<0.30	<0.26	<0.30	<0.27	<0.34	<0.30	<0.29	<0.27	<0.32	<0.30	<0.30	<0.30	<0.29	<0.29	<0.25	<0.25	<0.26	<0.30	<0.26	<0.26	<0.26
hexachloroethane	67-72-1	0.56	0.56	<0.15	<0.16	<0.14	<0.16	<0.15	<0.19	<0.16	<0.16	<0.15	<0.18	<0.17	<0.17	<0.16	<0.16	<0.16	<0.14	<0.14	<0.15	<0.16	<0.14	<0.14	<0.14
nitrobenzene	98-95-3	0.12	0.63	*<0.028	*<0.031	*<0.027	*<0.030	*<0.028	*<0.035	*<0.031	*<0.030	*<0.028	*<0.033	*<0.031	*<0.031	*<0.030	*<0.029	*<0.030	*<0.025	*<0.025	*<0.027	*<0.030	*<0.026	*<0.026	*<0.026
isophorone	78-59-1	10	10	<0.17	<0.19	<0.16	<0.18	<0.17	<0.21	<0.19	<0.18	<0.17	<0.20	<0.19	<0.19	<0.18	<0.18	<0.18	<0.16	<0.15	<0.16	<0.18	<0.16	<0.16	<0.16
2-nitrophenol	88-75-5	28	78	<0.42	<0.45	<0.39	<0.44	<0.41	<0.51	<0.45	<0.44	<0.41	<0.48	<0.46	<0.45	<0.44	<0.43	<0.44	<0.37	<0.37	<0.4	<0.44	<0.38	<0.39	<0.39
2,4-dimethylphenol	105-67-9	69	190	<0.19	<0.21	<0.18	<0.2	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18	<0.18
bis (2-chloroethoxy)methane	111-91-1	10	29	<0.21	<0.22	<0.20	<0.22	<0.2	<0.25	<0.22	<0.22	<0.2	<0.24	<0.23	<0.23	<0.22	<0.22	<0.22	<0.19	<0.18	<0.20	<0.22	<0.19	<0.19	<0.19
2,4-dichlorophenol	120-83-2	2	2	<0.17	<0.19	<0.16	<0.18	<0.17	<0.21	<0.19	<0.18	<0.17	<0.20	<0.19	<0.19	<0.18	<0.18	<0.18	<0.16	<0.15	<0.16	<0.18	<0.16	<0.16	<0.16
naphthalene	91-20-3	25	25	**0.038**	<0.041	**0.055**	<0.041	**0.057**	<0.047	<0.041	<0.040	**0.14**	<0.044	<0.042	<0.042	<0.041	<0.04	<0.041	**0.48**	**0.51**	<0.037	<0.041	**0.10**	<0.036	**0.37**
4-chloroaniline	106-47-8	0.42	1.8	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18	<0.18
hexachlorobutadiene	87-68-3	10	42	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18	<0.18
caprolactam	105-60-2	-	-	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18	<0.18
p-chloro-m-cresol	59-50-7	720	2,000	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18	<0.18
2-methylnapthalene	91-57-6	25	100	0.046J	<0.25	0.13J	<0.24	0.037J	<0.28	<0.25	<0.24	**0.24**	<0.27	<0.25	<0.25	<0.25	<0.24	<0.24	**0.25**	**0.22**	<0.22	<0.25	0.10J	0.036J	**0.49**
hexachlorocyclopentadiene	77-47-4	91	91	<0.55	<0.59	<0.52	<0.59	<0.54	<0.67	<0.59	<0.58	<0.54	<0.63	<0.60	<0.6	<0.59	<0.57	<0.58	<0.49	<0.49	<0.53	<0.59	<0.51	<0.51	<0.51
1,2,4,5-tetrachlorobenzene	95-94-3	4.6	13	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.2	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18	<0.18
2,4,6-trichlorophenol	88-06-2	10	28	<0.12	<0.12	<0.11	<0.12	<0.11	<0.14	<0.12	<0.12	<0.11	<0.13	<0.13	<0.13	<0.12	<0.12	<0.12	<0.10	<0.10	<0.11	<0.12	<0.11	<0.11	<0.11
2,4,5-trichlorophenol	95-95-4	2,100	5,900	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18	<0.18
1,1-biphenyl	92-52-4	0.37	1.5	*<0.025	*<0.027	*<0.024	*<0.027	0.030J	*<0.030	*<0.027	*<0.026	0.046J	*<0.029	*<0.027	*<0.027	*<0.027	*<0.026	*<0.026	**0.53**	0.38J	*<0.024	*<0.027	0.024J	*<0.023	0.052J
2-chloronaphthalene	91-58-7	6,000	17,000	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18	<0.18
2-nitroaniline	88-74-4	0.011	0.044	*<0.037	*<0.040	*<0.035	*<0.040	*<0.036	*<0.045	*<0.040	*<0.039	*<0.036	*<0.043	*<0.041	*<0.040	*<0.040	*<0.038	*<0.039	*<0.033	*<0.033	*<0.036	*<0.040	*<0.034	*<0.034	*<0.034
dimethyl phthalate	131-11-3	-	-	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18	<0.18
2,6-dinitrotoluene	606-20-2	0.043	0.18	*<0.033	*<0.036	*<0.031	*<0.035	*<0.032	*<0.040	*<0.035	*<0.035	*<0.032	*<0.038	*<0.036	*<0.036	*<0.035	*<0.034	*<0.035	*<0.030	*<0.029	*<0.032	*<0.035	*<0.030	*<0.031	*<0.031
acenaphthylene	208-96-8	2,400	6,600	0.042J	<0.16	0.033J	<0.16	<0.15	<0.19	<0.16	<0.16	0.051J	<0.18	<0.17	<0.17	<0.16	0.086J	<0.16	<0.14	<0.14	<0.15	<0.16	0.10J	<0.14	0.11J
3-nitroaniline	99-09-2	-	-	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18	<0.18
acenaphthene	83-32-9	2,600	4,700	<0.15	<0.16	<0.14	<0.16	<0.15	<0.19	<0.16	<0.16	0.034J	<0.18	<0.17	<0.17	<0.16	<0.16	<0.16	0.021J	<0.14	<0.15	<0.16	**0.16**	<0.14	<0.14
2,4-dinitrophenol	51-28-5	6.9	19	<0.92	<0.99	<0.87	<0.98	<0.9	<1.1	<0.99	<0.97	<0.90	<1.1	<1.0	<1.0	<0.98	<0.96	<0.98	<0.83	<0.82	<0.88	<0.98	<0.85	<0.86	<0.86
4-nitrophenol	100-02-7	6	6	<0.27	<0.29	<0.26	<0.29	<0.26	<0.33	<0.29	<0.28	<0.26	<0.31	<0.30	<0.29	<0.29	<0.28	<0.28	<0.24	<0.24	<0.26	<0.29	<0.25	<0.25	<0.25
2,4-dinitrotoluene	121-14-2	0.21	0.88	<0.19	<0.21	<0.18	<0.20	<0.19	*<0.047	<0.21	<0.20	<0.19	*<0.044	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18	<0.18
dibenzofuran	132-64-9	90	250	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	0.050J	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	0.042J	0.035J	<0.18	<0.20	0.11J	<0.18	0.10J
2,3,4,6-tetrachlorophenol	58-90-2	1,600	4,500	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18	<0.18
diethyl phthalate	84-66-2	2,800	7800	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18	<0.18
fluorene	86-73-7	2,800	3,800	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	0.059J	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	0.026J	0.020J	<0.18	<0.20	0.15J	<0.18	0.044J
4-chlorophenyl phenyl ether	7005-72-3	-	-	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18	<0.18
4-nitroaniline	100-01-6	3.3	14	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18	<0.18
4,6-dinitro-o-cresol	534-52-1	0.28	0.78	*<0.092	*<0.099	*<0.087	*<0.098	*<0.090	*<0.11	*<0.099	*<0.097	*<0.090	*<0.11	*<0.10	*<0.10	*<0.098	*<0.096	*<0.098	*<0.083	*<0.082	*<0.088	*<0.098	*<0.085	*<0.086	*<0.086

Appendix D3(c): Used Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results - Semivolatile Organic Compounds

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-101 (0-2)	FROG-SS-101 (3-5)	FROG-SS-102 (0-2)	FROG-SS-102 (19-21)	FROG-SS-103 (0-2)	FROG-SS-103 (28-30)	FROG-SS-104 (0-2)	FROG-SS-104 (10-11.5)	FROG-SS-105 (1-3)	FROG-SS-105 (13-15)	FROG-SS-108 (1-3)	FROG-SS-108 (5.5-7.5)	FROG-SS-DUP-101	FROG-SS-109 (2.5-4.5)	FROG-SS-109 (8-10)	FROG-SS-110 (1.5-3.5)	FROG-SS-110 (5-7)	FROG-SS-111 (0-2)	FROG-SS-111 (10-11)	FROG-SS-112 (0-2)	FROG-SS-112 (7-9)	FROG-SS-115 (0-2)
n-nitrosodiphenylamine / diphenylamine	86-30-6 / 122-39-4	3/ 350	15 / 970	<0.15	<0.16	<0.14	<0.16	<0.15	<0.19	<0.16	<0.16	<0.15	<0.18	<0.17	<0.17	<0.16	<0.16	<0.16	<0.14	<0.14	<0.15	<0.16	<0.14	<0.14	<0.14
4-bromophenyl phenyl ether	101-55-3	-	-	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18	<0.18
hexachlorobenzene	118-74-1	0.96	0.96	<0.12	<0.12	<0.11	<0.12	<0.11	<0.14	<0.12	<0.12	<0.11	<0.13	<0.13	<0.13	<0.12	<0.12	<0.12	<0.10	<0.10	<0.11	<0.12	<0.11	<0.11	<0.11
pentachlorophenol	87-86-5	5	5	<0.15	<0.16	<0.14	<0.16	<0.15	<0.19	<0.16	<0.16	<0.15	<0.18	<0.17	<0.17	<0.16	<0.16	<0.16	<0.14	<0.14	<0.15	<0.16	<0.14	<0.14	<0.14
atrazine	1912-24-9	0.3	0.3	<0.15	<0.16	<0.14	<0.16	<0.15	<0.19	<0.16	<0.16	<0.15	<0.18	<0.17	<0.17	<0.16	<0.16	<0.16	<0.14	<0.14	<0.15	<0.16	<0.14	<0.14	<0.14
phenanthrene	85-01-8	10,000	10,000	**0.17**	<0.12	**0.16**	<0.12	0.057J	<0.14	<0.12	<0.12	**0.42**	<0.13	0.040J	<0.13	<0.12	**0.13**	<0.12	**0.27**	**0.22**	0.024J	0.025J	**2.2**	<0.11	**0.46**
anthracene	120-12-7	350	350	0.042J	<0.12	<0.11	<0.12	<0.11	<0.14	<0.12	<0.12	0.071J	<0.13	<0.13	<0.13	<0.12	<0.12	<0.12	<0.10	<0.10	<0.11	<0.12	**0.49**	<0.11	0.090J
carbazole	86-74-8	21	89	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	0.046J	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	0.021J	0.021J	<0.18	<0.20	**0.35**	<0.18	0.030J
di-n-butyl phthalate	84-74-2	1,400	4,000	<0.19	<0.21	<0.18	<0.20	0.11J	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	0.041J	<0.20	<0.20	0.061J	0.034J	<0.18	<0.20	<0.18	<0.18	<0.18
fluoranthene	206-44-0	3,200	3,200	**0.22**	<0.12	**0.22**	<0.12	0.097J	<0.14	<0.12	<0.12	**0.47**	<0.13	0.046J	<0.13	<0.12	**0.24**	<0.12	0.052J	0.056J	0.030J	0.048J	**3.4**	<0.11	**0.39**
pyrene	129-00-0	2,200	2,200	**0.23**	<0.12	**0.21**	<0.12	0.087J	<0.14	<0.12	<0.12	**0.41**	<0.13	0.041J	<0.13	<0.12	**0.30**	<0.12	0.046J	0.049J	0.028J	0.044J	**2.7**	<0.11	**0.48**
butyl benzyl phthalate	85-68-7	2,900	10,000	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18	<0.18
3-3'-dichlorobenzidine	91-94-1	7.7	33	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18	<0.18
benzo(a)anthracene	56-55-3	26	340	**0.12**	<0.12	**0.11**	<0.12	0.050J	<0.14	<0.12	<0.12	**0.22**	<0.13	0.033J	<0.13	<0.12	**0.13**	<0.12	<0.10	0.025J	<0.11	0.030J	**1.6**	<0.11	**0.28**
chrysene	218-01-9	220	230	**0.19**	<0.12	**0.14**	<0.12	0.072J	<0.14	<0.12	<0.12	**0.30**	<0.13	0.034J	<0.13	<0.12	**0.17**	<0.12	0.035J	0.040J	0.025J	0.026J	**1.7**	<0.11	**0.4**
bis(2-ethylhexyl) phthalate	117-81-7	130	130	<0.19	<0.21	<0.18	<0.20	0.077J	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	0.074J	<0.17	<0.18	<0.20	<0.18	<0.18	<0.18
di-n-octyl phthalate	117-84-0	10,000	10,000	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18	<0.18
benzo(b)fluoranthene	205-99-2	25	170	**0.18**	<0.12	**0.16**	<0.12	0.098J	<0.14	<0.12	<0.12	**0.33**	<0.13	<0.13	<0.13	<0.12	**0.17**	<0.12	<0.10	<0.10	<0.11	<0.12	**2.3**	<0.11	**0.34**
benzo(k)fluoranthene	207-08-9	200	610	0.047J	<0.12	0.046J	<0.12	<0.11	<0.14	<0.12	<0.12	0.076J	<0.13	<0.13	<0.13	<0.12	0.054J	<0.12	<0.10	<0.10	<0.11	<0.12	**0.67**	<0.11	0.10J
benzo(a)pyrene	50-32-8	46	46	0.11J	<0.16	0.11J	<0.16	0.063J	<0.19	<0.16	<0.16	**0.21**	<0.18	<0.17	<0.17	<0.16	0.14J	<0.16	<0.14	<0.14	<0.15	<0.16	**1.7**	<0.14	**0.28**
indeno (1,2,3-cd) pyrene	193-39-5	1,400	18,000	0.098J	<0.16	0.086J	<0.16	0.051J	<0.19	<0.16	<0.16	0.14J	<0.18	<0.17	<0.17	<0.16	0.088J	<0.16	<0.14	<0.14	<0.15	<0.16	**1.2**	<0.14	**0.18**
dibenzo(a,h)anthracene	53-70-3	23	270	0.025J	<0.12	0.023J	<0.12	<0.11	<0.14	<0.12	<0.12	0.034J	<0.13	<0.13	<0.13	<0.12	<0.12	<0.12	<0.10	<0.10	<0.11	<0.12	**0.23**	<0.11	0.076J
benzo(g,h,i)perylene	191-24-2	180	180	0.10J	<0.16	0.085J	<0.16	0.057J	<0.19	<0.16	<0.16	**0.15**	<0.18	<0.17	<0.17	<0.16	0.10J	<0.16	<0.14	<0.14	<0.15	<0.16	**1.0**	<0.14	**0.22**

Appendix D3(c): Used Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results - Semivolatile Organic Compounds

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-115 (6.5-8.5)	FROG-SS-116 (0-2)	FROG-SS-116 (18.5-20.5)	FROG-SS-117 (0-2)	FROG-SS-DUP-103	FROG-SS-117 (11-13)	FROG-SS-118 (0-2)	FROG-SS-118 (10-12)	FROG-SS-DUP-102	FROG-SS-119 (0-0.5)	FROG-SS-119 (0.5-1)	FROG-SS-120 (0-2)	FROG-SS-120 (2-3.5)	FROG-SS-121 (0-2)	FROG-SS-121 (20-21.5)	FROG-SS-122 (1.5-3.5)	FROG-SS-122 (30-32)	FROG-SS-123 (1-3)	FROG-SS-123 (17-19)	FROG-SS-DUP-104	FROG-SS-124 (FLOOR)	FROG-SS-125 (FLOOR)
Semivolatile Organic Compounds																										
benzaldehyde	100-52-7	-	-	<0.27	<0.23	<0.27	<0.23	<0.23	<0.25	<0.26	<0.27	<0.27	<1.2	<0.24	<0.24	<0.24	<0.24	<0.26	<0.26	<0.33	<0.26	<0.27	<0.27	<0.23	<0.22
phenol	108-95-2	200	200	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	0.037	<0.19	0.043J	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	<0.17	<0.17
bis(2-chloroethyl)ether	111-44-4	0.015	0.076	*<0.015	*<0.013	*<0.015	*<0.013	*<0.013	*<0.014	*<0.015	*<0.015	*<0.015	*<0.067	*<0.014	*<0.013	*<0.014	*<0.013	*<0.014	*<0.014	*<0.018	*<0.014	*<0.015	*<0.015	*<0.013	*<0.012
2-chlorophenol	95-57-8	4.4	20	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	<0.17	<0.17
2-methylphenol	95-48-7	170	490	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	<0.17	<0.17
bis(2-chloroisopropyl)ether	108-60-1	30	30	<0.24	<0.21	<0.24	<0.21	<0.21	<0.23	<0.24	<0.25	<0.25	<1.1	<0.22	<0.22	<0.22	<0.22	<0.24	<0.23	<0.30	<0.23	<0.24	<0.24	<0.20	<0.20
acetophenone	98-86-2	350	970	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	<0.17	<0.17
1,4-dioxane	123-91-1	0.65	2.7	<0.031	<0.026	<0.030	<0.026	<0.026	<0.028	<0.030	<0.031	<0.031	<0.14	<0.028	<0.027	<0.028	<0.027	<0.030	<0.029	<0.037	<0.029	<0.030	<0.030	<0.026	<0.025
n-nitrosodi-n-propylamine	621-64-7	0.0025	0.013	*<0.020	*<0.017	*<0.019	*<0.017	*<0.016	*<0.018	*<0.019	*<0.020	*<0.020	*<0.086	*<0.018	*<0.017	*<0.018	*<0.017	*<0.019	*<0.018	*<0.024	*<0.018	*<0.019	*<0.019	*<0.016	*<0.016
3-methylphenol / 4-methylphenol	108-39-4 / 106-44-5	170 / 17	490 / 49	<0.29	<0.25	<0.29	<0.25	<0.25	<0.27	<0.29	<0.30	<0.30	<1.3	<0.27	0.029J	<0.27	0.071J	<0.28	<0.28	<0.36	<0.28	<0.29	<0.29	<0.25	<0.24
hexachloroethane	67-72-1	0.56	0.56	<0.16	<0.14	<0.16	<0.14	<0.14	<0.15	<0.16	<0.16	<0.16	*<0.14	<0.15	<0.14	<0.15	<0.14	<0.16	<0.16	<0.20	<0.16	<0.16	<0.16	<0.14	<0.13
nitrobenzene	98-95-3	0.12	0.63	*<0.030	*<0.026	*<0.030	*<0.026	*<0.026	*<0.028	*<0.030	*<0.030	*<0.031	*<0.13	*<0.027	*<0.027	*<0.028	*<0.027	*<0.029	*<0.029	*<0.037	*<0.029	*<0.030	*<0.030	*<0.025	*<0.025
isophorone	78-59-1	10	10	<0.18	<0.16	<0.18	<0.16	<0.16	<0.17	<0.18	<0.18	<0.19	<0.81	<0.17	<0.16	<0.17	<0.16	<0.18	<0.17	<0.22	<0.17	<0.18	<0.18	<0.15	<0.15
2-nitrophenol	88-75-5	28	78	<0.44	<0.38	<0.44	<0.38	<0.37	<0.41	<0.43	<0.44	<0.45	<1.9	<0.40	<0.39	<0.4	<0.39	<0.42	<0.42	<0.53	<0.42	<0.44	<0.44	<0.37	<0.36
2,4-dimethylphenol	105-67-9	69	190	<0.20	<0.18	<0.20	<0.17	<0.17	<0.16	<0.20	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	<0.17	<0.17
bis (2-chloroethoxy)methane	111-91-1	10	29	<0.22	<0.19	<0.22	<0.19	<0.19	<0.20	<0.22	<0.22	<0.22	<0.97	<0.20	<0.20	<0.2	<0.19	<0.21	<0.21	<0.27	<0.21	<0.22	<0.22	<0.18	<0.18
2,4-dichlorophenol	120-83-2	2	2	<0.18	<0.16	<0.18	<0.16	<0.16	<0.17	<0.18	<0.18	<0.19	<0.81	<0.17	<0.16	<0.17	<0.16	<0.18	<0.17	<0.22	<0.17	<0.18	<0.18	<0.15	<0.15
naphthalene	91-20-3	25	25	<0.041	**0.059**	**0.14**	<0.035	**0.035**	<0.038	<0.04	<0.041	<0.041	<0.18	<0.037	**0.13**	**0.069**	**0.48**	<0.039	<0.039	<0.049	<0.039	<0.040	<0.041	**0.46**	**0.045**
4-chloroaniline	106-47-8	0.42	1.8	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	*<0.16	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	<0.17	<0.17
hexachlorobutadiene	87-68-3	10	42	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	<0.17	<0.17
caprolactam	105-60-2	-	-	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	<0.17	<0.17
p-chloro-m-cresol	59-50-7	720	2,000	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	<0.17	<0.17
2-methylnapthalene	91-57-6	25	100	<0.24	0.13J	0.13J	<0.21	0.045J	<0.23	<0.24	<0.25	<0.25	<1.1	<0.22	0.13J	0.093J	**0.49**	<0.24	<0.23	<0.30	<0.23	<0.24	<0.24	0.030J	<0.20
hexachlorocyclopentadiene	77-47-4	91	91	<0.58	<0.50	<0.58	<0.50	<0.49	<0.54	<0.57	<0.59	<0.59	<2.6	<0.53	<0.52	<0.53	<0.52	<0.56	<0.55	<0.71	<0.56	<0.58	<0.58	<0.49	<0.48
1,2,4,5-tetrachlorobenzene	95-94-3	4.6	13	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	<0.17	<0.17
2,4,6-trichlorophenol	88-06-2	10	28	<0.12	<0.10	<0.12	<0.10	<0.10	<0.11	<0.12	<0.12	<0.12	<0.54	<0.11	<0.11	<0.11	<0.11	<0.12	<0.12	<0.15	<0.12	<0.12	<0.12	<0.10	<0.10
2,4,5-trichlorophenol	95-95-4	2,100	5,900	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	<0.17	<0.17
1,1-biphenyl	92-52-4	0.37	1.5	*<0.027	0.023J	*<0.026	*<0.023	*<0.022	*<0.024	*<0.026	*<0.027	*<0.027	*<0.12	*<0.024	0.031J	*<0.024	0.071J	*<0.026	*<0.025	*<0.032	*<0.025	*<0.026	*<0.026	*<0.022	*<0.022
2-chloronaphthalene	91-58-7	6,000	17,000	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	<0.17	<0.17
2-nitroaniline	88-74-4	0.011	0.044	*<0.039	*<0.034	*<0.039	*<0.034	*<0.033	*<0.036	*<0.038	*<0.040	*<0.040	*<0.17	*<0.036	*<0.035	*<0.036	*<0.035	*<0.038	*<0.037	*<0.048	*<0.037	*<0.039	*<0.039	*<0.033	*<0.032
dimethyl phthalate	131-11-3	-	-	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	<0.17	<0.17
2,6-dinitrotoluene	606-20-2	0.043	0.18	*<0.035	*<0.030	*<0.035	*<0.030	*<0.030	*<0.032	*<0.034	*<0.034	*<0.036	*<0.15	*<0.032	*<0.031	*<0.032	*<0.031	*<0.034	*<0.033	*<0.042	*<0.033	*<0.035	*<0.035	*<0.029	*<0.028
acenaphthylene	208-96-8	2,400	6,600	<0.16	<0.14	<0.16	<0.14	<0.14	<0.15	<0.16	<0.16	<0.16	<0.72	<0.15	**0.24**	<0.15	**0.49**	<0.16	<0.16	<0.20	<0.16	<0.16	<0.16	<0.14	<0.13
3-nitroaniline	99-09-2	-	-	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.9	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	<0.17	<0.17
acenaphthene	83-32-9	2,600	4,700	<0.16	0.024J	0.027J	<0.14	<0.14	<0.15	<0.16	<0.16	<0.16	<0.72	<0.15	**0.32**	**0.28**	**0.28**	<0.16	<0.16	<0.20	<0.16	<0.16	<0.16	<0.14	<0.13
2,4-dinitrophenol	51-28-5	6.9	19	<0.98	<0.84	<0.97	<0.83	<0.83	<0.90	<0.96	<0.98	<0.99	<4.3	<0.89	<0.87	<0.89	<0.86	<0.94	<0.93	<1.2	<0.93	<0.97	<0.98	<0.82	<0.8
4-nitrophenol	100-02-7	6	6	<0.28	<0.25	<0.28	<0.24	<0.24	<0.26	<0.28	<0.29	<0.29	<1.3	<0.26	<0.25	<0.26	<0.25	<0.28	<0.27	<0.35	<0.27	<0.28	<0.28	<0.24	<0.23
2,4-dinitrotoluene	121-14-2	0.21	0.88	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	*<0.18	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	*<0.049	<0.19	<0.20	<0.20	<0.17	<0.17
dibenzofuran	132-64-9	90	250	<0.20	0.033J	<0.20	<0.17	0.016J	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	**0.18**	0.099J	**0.35**	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	<0.17	<0.17
2,3,4,6-tetrachlorophenol	58-90-2	1,600	4,500	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	<0.17	<0.17
diethyl phthalate	84-66-2	2,800	7800	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	<0.17	<0.17
fluorene	86-73-7	2,800	3,800	<0.20	0.020J	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	**0.37**	0.15J	**0.36**	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	<0.17	<0.17
4-chlorophenyl phenyl ether	7005-72-3	-	-	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	<0.17	<0.17
4-nitroaniline	100-01-6	3.3	14	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	<0.17	<0.17
4,6-dinitro-o-cresol	534-52-1	0.28	0.78	*<0.098	*<0.084	*<0.097	*<0.083	*<0.083	*<0.090	*<0.096	*<0.098	*<0.099	*<0.43	*<0.089	*<0.087	*<0.089	*<0.086	*<0.094	*<0.093	*<0.12	*<0.093	*<0.097	*<0.098	*<0.082	*<0.080

Appendix D3(c): Used Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results - Semivolatile Organic Compounds

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-115 (6.5-8.5)	FROG-SS-116 (0-2)	FROG-SS-116 (18.5-20.5)	FROG-SS-117 (0-2)	FROG-SS-DUP-103	FROG-SS-117 (11-13)	FROG-SS-118 (0-2)	FROG-SS-118 (10-12)	FROG-SS-DUP-102	FROG-SS-119 (0-0.5)	FROG-SS-119 (0.5-1)	FROG-SS-120 (0-2)	FROG-SS-120 (2-3.5)	FROG-SS-121 (0-2)	FROG-SS-121 (20-21.5)	FROG-SS-122 (1.5-3.5)	FROG-SS-122 (30-32)	FROG-SS-123 (1-3)	FROG-SS-123 (17-19)	FROG-SS-DUP-104	FROG-SS-124 (FLOOR)	FROG-SS-125 (FLOOR)
n-nitrosodiphenylamine / diphenylamine	86-30-6 / 122-39-4	3/ 350	15 / 970	<0.16	<0.14	<0.16	<0.14	<0.14	<0.15	<0.16	<0.16	<0.16	<0.72	<0.15	<0.14	<0.15	<0.14	<0.16	<0.16	<0.20	<0.16	<0.16	<0.16	<0.14	<0.13
4-bromophenyl phenyl ether	101-55-3	-	-	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	<0.17	<0.17
hexachlorobenzene	118-74-1	0.96	0.96	<0.12	<0.10	<0.12	<0.10	<0.10	<0.11	<0.12	<0.12	<0.12	<0.54	<0.11	<0.11	<0.11	<0.11	<0.12	<0.12	<0.15	<0.12	<0.12	<0.12	<0.10	<0.10
pentachlorophenol	87-86-5	5	5	<0.16	<0.14	<0.16	<0.14	<0.14	<0.15	<0.16	<0.16	<0.16	<0.72	<0.15	<0.14	<0.15	<0.14	<0.16	<0.16	<0.20	<0.16	<0.16	<0.16	<0.14	<0.13
atrazine	1912-24-9	0.3	0.3	<0.16	<0.14	<0.16	<0.14	<0.14	<0.15	<0.16	<0.16	<0.16	*<0.32	<0.15	<0.14	<0.15	<0.14	<0.16	<0.16	<0.20	<0.16	<0.16	<0.16	<0.14	<0.13
phenanthrene	85-01-8	10,000	10,000	<0.12	**0.15**	<0.12	0.070J	0.087J	0.057J	0.025J	<0.12	<0.12	0.13J	<0.11	**5.9**	**1.9**	**5.8**	<0.12	0.025J	<0.15	<0.12	<0.12	<0.12	**0.30**	0.058J
anthracene	120-12-7	350	350	<0.12	0.042J	<0.12	<0.10	<0.10	<0.11	<0.12	<0.12	<0.12	<0.54	0.033J	**2.1**	**0.49**	**1.1**	<0.12	<0.12	<0.15	<0.12	<0.12	<0.12	0.057J	<0.10
carbazole	86-74-8	21	89	<0.20	0.026J	<0.20	0.021J	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	**0.32**	**0.22**	**0.55**	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	0.059J	<0.17
di-n-butyl phthalate	84-74-2	1,400	4,000	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.2	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	<0.17	<0.17
fluoranthene	206-44-0	3,200	3,200	<0.12	**0.22**	<0.12	**0.12**	**0.12**	0.049J	0.026J	<0.12	<0.12	0.23J	0.10J	**11**	**3.0**	**7.2**	<0.12	0.037J	<0.15	<0.12	<0.12	<0.12	**0.47**	0.060J
pyrene	129-00-0	2,200	2,200	<0.12	**0.18**	<0.12	**0.11**	**0.12**	0.040J	0.023J	<0.12	<0.12	0.22J	**0.12**	**9.3**	**2.3**	**6.0**	<0.12	0.039J	<0.15	<0.12	<0.12	<0.12	**0.40**	0.052J
butyl benzyl phthalate	85-68-7	2,900	10,000	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	.064J	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	<0.17	<0.17
3-3'-dichlorobenzidine	91-94-1	7.7	33	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	<0.17	<0.17
benzo(a)anthracene	56-55-3	26	340	<0.12	**0.11**	<0.12	0.065J	0.065J	0.024J	<0.12	<0.12	<0.12	0.15J	**0.12**	**6.6**	**1.5**	**3.8**	<0.12	<0.12	<0.15	<0.12	<0.12	<0.12	**0.19**	<0.10
chrysene	218-01-9	220	230	<0.12	**0.10**	<0.12	0.070J	0.078J	0.021J	<0.12	<0.12	<0.12	0.18J	**0.17**	**4.8**	**1.3**	**3.6**	<0.12	0.022J	<0.15	<0.12	<0.12	<0.12	**0.26**	<0.10
bis(2-ethylhexyl) phthalate	117-81-7	130	130	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.2	<0.21	0.69J	<0.18	**0.20**	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	<0.17	<0.17
di-n-octyl phthalate	117-84-0	10,000	10,000	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	0.81J	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	<0.17	<0.17
benzo(b)fluoranthene	205-99-2	25	170	<0.12	**0.14**	<0.12	0.088J	0.096J	<0.11	<0.12	<0.12	<0.12	0.31J	**0.34**	**9.5**	**2.0**	**5.0**	<0.12	<0.12	<0.15	<0.12	<0.12	<0.12	**0.29**	<0.10
benzo(k)fluoranthene	207-08-9	200	610	<0.12	0.053J	<0.12	<0.10	<0.10	<0.11	<0.12	<0.12	<0.12	<0.54	0.095J	**1.4**	**0.54**	**1.2**	<0.12	<0.12	<0.15	<0.12	<0.12	<0.12	**0.10**	<0.10
benzo(a)pyrene	50-32-8	46	46	<0.16	0.12J	<0.16	0.064J	0.067J	<0.15	<0.16	<0.16	<0.16	<0.72	**0.21**	**6.7**	**1.5**	**3.7**	<0.16	<0.16	<0.20	<0.16	<0.16	<0.16	**0.14**	<0.13
indeno (1,2,3-cd) pyrene	193-39-5	1,400	18,000	<0.16	0.080J	<0.16	0.045J	0.050J	<0.15	<0.16	<0.16	<0.16	0.16J	**0.18**	**3.8**	**1.0**	**2.5**	<0.16	<0.16	<0.20	<0.16	<0.16	<0.16	0.12J	<0.13
dibenzo(a,h)anthracene	53-70-3	23	270	<0.12	<0.10	<0.12	<0.10	<0.10	<0.11	<0.12	<0.12	<0.12	<0.54	0.045J	**0.64**	**0.20**	**0.43**	<0.12	<0.12	<0.15	<0.12	<0.12	<0.12	0.038J	<0.10
benzo(g,h,i)perylene	191-24-2	180	180	<0.16	0.073J	0.031J	0.044J	0.050J	<0.15	<0.16	<0.16	<0.16	0.23J	**0.21**	**3.3**	**0.90**	**2.4**	<0.16	<0.16	<0.20	<0.16	<0.16	<0.16	**0.17**	<0.13

Appendix D3(c): Used Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results - Semivolatile Organic Compounds

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-126 (FLOOR)	FROG-SS-DUP-105	FROG-SS-127 (FLOOR)	FROG-SS-212 (5.0-7.0)	FROG-SS-217 (0.0-2.0)	FROG-SS-217 (4.0-5.0)	FROG-SS-217 (9.0-10.0)	FROG-SS-217 (11.0-12.0)	FROG-SS-218 (0.0-2.0)	FROG-SS-218 (4.0-5.0)	FROG-SS-218 (9.0-10.0)	FROG-SS-218 (11.0-12.0)	FROG-SS-219 (0.0-2.0)	FROG-SS-DUP-204	FROG-SS-219 (4.0-5.0)	FROG-SS-219 (5.5-6.5)	FROG-SS-220 (0.0-2.0)	FROG-SS-220 (4.0-5.0)	FROG-SS-DUP-203	FROG-SS-220 (5.5-6.0)	FROG-SS-221 (0.0-2.0)
Semivolatile Organic Compounds																								
benzaldehyde	100-52-7	-	-	0.16J	0.12J	<0.21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
phenol	108-95-2	200	200	0.15J	**0.19**	0.044J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-chloroethyl)ether	111-44-4	0.015	0.076	*<0.012	*<0.012	*<0.012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-chlorophenol	95-57-8	4.4	20	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-methylphenol	95-48-7	170	490	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-chloroisopropyl)ether	108-60-1	30	30	<0.2	<0.20	<0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
acetophenone	98-86-2	350	970	0.13J	0.13J	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-dioxane	123-91-1	0.65	2.7	<0.025	<0.025	<0.024	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-nitrosodi-n-propylamine	621-64-7	0.0025	0.013	*<0.016	*<0.016	*<0.016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-methylphenol / 4-methylphenol	108-39-4 / 106-44-5	170 / 17	490 / 49	<0.24	<0.24	<0.23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
hexachloroethane	67-72-1	0.56	0.56	<0.13	<0.13	<0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
nitrobenzene	98-95-3	0.12	0.63	*<0.025	*<0.024	*<0.024	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
isophorone	78-59-1	10	10	<0.15	<0.15	<0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-nitrophenol	88-75-5	28	78	<0.36	<0.36	<0.35	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-dimethylphenol	105-67-9	69	190	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis (2-chloroethoxy)methane	111-91-1	10	29	<0.18	<0.18	<0.18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-dichlorophenol	120-83-2	2	2	<0.15	<0.15	<0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
naphthalene	91-20-3	25	25	**0.51**	**0.18**	0.026J	**13**	**0.10**	**0.049**	<0.041	<0.043	0.11J	0.030J	<0.041	<0.040	<0.18	**0.12**	**0.054**	<0.042	**0.049**	**0.040**	**0.037**	0.028J	**0.093**
4-chloroaniline	106-47-8	0.42	1.8	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
hexachlorobutadiene	87-68-3	10	42	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
caprolactam	105-60-2	-	-	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-chloro-m-cresol	59-50-7	720	2,000	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-methylnapthalene	91-57-6	25	100	0.064J	0.060J	0.036J	**69**	0.19J	0.038J	<0.25	<0.26	<1.0	0.034J	<0.24	<0.24	<1.0	0.096J	0.068J	<0.25	0.059J	0.052J	0.045J	<0.23	0.11J
hexachlorocyclopentadiene	77-47-4	91	91	<0.48	<0.47	<0.46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4,5-tetrachlorobenzene	95-94-3	4.6	13	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-trichlorophenol	88-06-2	10	28	<0.10	<0.10	<0.098	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-trichlorophenol	95-95-4	2,100	5,900	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-biphenyl	92-52-4	0.37	1.5	<0.077J	0.075J	<0.37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-chloronaphthalene	91-58-7	6,000	17,000	<0.17	<0.17	<0.16	<2.6	<0.18	<0.20	<0.20	<0.21	<0.88	<0.19	<0.20	<0.20	<0.88	<0.19	<0.19	<0.21	<0.18	<0.18	<0.18	<0.19	<0.17
2-nitroaniline	88-74-4	0.011	0.044	*<0.032	*<0.032	*<0.031	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
dimethyl phthalate	131-11-3	-	-	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-dinitrotoluene	606-20-2	0.043	0.18	*<0.029	*<0.028	*<0.028	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
acenaphthylene	208-96-8	2,400	6,600	<0.13	<0.13	<0.13	<2.1	<0.14	0.13J	<0.16	<0.17	<0.70	<0.15	<0.16	<0.16	<0.70	0.089J	0.045J	<0.17	0.034J	<0.14	<0.15	0.031J	0.11J
3-nitroaniline	99-09-2	-	-	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
acenaphthene	83-32-9	2,600	4,700	<0.13	<0.13	<0.13	**4.7**	0.019J	0.046J	<0.16	<0.17	<0.70	<0.15	<0.16	<0.16	<0.70	<0.15	<0.15	<0.17	<0.14	<0.14	<0.15	<0.16	0.065J
2,4-dinitrophenol	51-28-5	6.9	19	<0.80	<0.80	<0.78	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-nitrophenol	100-02-7	6	6	**0.31**	<0.23	<0.23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-dinitrotoluene	121-14-2	0.21	0.88	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
dibenzofuran	132-64-9	90	250	<0.17	<0.17	0.015J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,4,6-tetrachlorophenol	58-90-2	1,600	4,500	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
diethyl phthalate	84-66-2	2,800	7800	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
fluorene	86-73-7	2,800	3,800	<0.17	<0.17	<0.16	**6.7**	0.020J	0.082J	<0.20	<0.21	<0.88	<0.19	<0.20	<0.20	<0.88	0.018J	<0.19	<0.21	0.019J	<0.18	<0.18	<0.19	0.072J
4-chlorophenyl phenyl ether	7005-72-3	-	-	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-nitroaniline	100-01-6	3.3	14	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-dinitro-o-cresol	534-52-1	0.28	0.78	*<0.080	*<0.080	*<0.078	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix D3(c): Used Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results - Semivolatile Organic Compounds

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-126 (FLOOR)	FROG-SS-DUP-105	FROG-SS-127 (FLOOR)	FROG-SS-212 (5.0-7.0)	FROG-SS-217 (0.0-2.0)	FROG-SS-217 (4.0-5.0)	FROG-SS-217 (9.0-10.0)	FROG-SS-217 (11.0-12.0)	FROG-SS-218 (0.0-2.0)	FROG-SS-218 (4.0-5.0)	FROG-SS-218 (9.0-10.0)	FROG-SS-218 (11.0-12.0)	FROG-SS-219 (0.0-2.0)	FROG-SS-DUP-204	FROG-SS-219 (4.0-5.0)	FROG-SS-219 (5.5-6.5)	FROG-SS-220 (0.0-2.0)	FROG-SS-220 (4.0-5.0)	FROG-SS-DUP-203	FROG-SS-220 (5.5-6.0)	FROG-SS-221 (0.0-2.0)
n-nitrosodiphenylamine / diphenylamine	86-30-6 / 122-39-4	3/ 350	15 / 970	<0.13	<0.13	<0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-bromophenyl phenyl ether	101-55-3	-	-	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
hexachlorobenzene	118-74-1	0.96	0.96	<0.10	<0.10	<0.098	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pentachlorophenol	87-86-5	5	5	<0.13	<0.13	<0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
atrazine	1912-24-9	0.3	0.3	<0.13	<0.13	<0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
phenanthrene	85-01-8	10,000	10,000	**0.53**	**0.54**	0.067J	**10**	**0.24**	**1.2**	<0.12	<0.13	0.13J	0.053J	<0.12	<0.12	0.11J	**0.34**	**0.16**	<0.13	**0.21**	0.074J	0.067J	**0.12**	**0.88**
anthracene	120-12-7	350	350	0.042J	0.057J	<0.098	1.5J	<0.11	**0.26**	<0.12	<0.13	<0.52	<0.11	<0.12	<0.12	<0.53	0.082J	0.039J	<0.13	0.060J	<0.11	<0.11	<0.12	**0.22**
carbazole	86-74-8	21	89	0.088J	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
di-n-butyl phthalate	84-74-2	1,400	4,000	0.054J	<0.17	0.097J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
fluoranthene	206-44-0	3,200	3,200	**0.30**	**0.26**	0.087J	0.56J	0.23	1.0	<0.12	<0.13	0.17J	0.055J	<0.12	<0.12	0.23J	0.63	0.29	<0.13	0.40	0.072J	0.083J	**0.21**	**1.4**
pyrene	129-00-0	2,200	2,200	**0.22**	**0.20**	0.075J	0.58J	0.20	1.0	<0.12	<0.13	0.18J	0.054J	<0.12	<0.12	0.20J	0.59	0.28	<0.13	0.33	0.058J	0.074J	**0.25**	**1.2**
butyl benzyl phthalate	85-68-7	2,900	10,000	<0.17	0.098J	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-3'-dichlorobenzidine	91-94-1	7.7	33	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(a)anthracene	56-55-3	26	340	0.040J	0.047J	0.021J	<1.6	**0.13**	**0.62**	<0.12	<0.13	0.12J	0.049J	<0.12	<0.12	0.16J	**0.47**	**0.19**	<0.13	**0.23**	0.036J	0.0436J	0.14	0.83
chrysene	218-01-9	220	230	**0.10**	**0.11**	0.049J	<1.6	**0.14**	**0.67**	<0.12	<0.13	0.13J	0.066J	<0.12	<0.12	0.21J	**0.63**	**0.23**	<0.13	**0.22**	0.040J	0.047J	0.17	0.75
bis(2-ethylhexyl) phthalate	117-81-7	130	130	<0.17	<0.17	**0.51**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
di-n-octyl phthalate	117-84-0	10,000	10,000	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(b)fluoranthene	205-99-2	25	170	<0.10	0.050J	<0.098	<1.6	**0.16**	**0.48**	<0.12	<0.13	0.18J	0.083J	<0.12	<0.12	0.33J	**1.0**	**0.28**	<0.13	**0.29**	0.050J	0.057J	**0.17**	**1.0**
benzo(k)fluoranthene	207-08-9	200	610	<0.10	<0.10	<0.098	<1.6	0.061J	**0.15**	<0.12	<0.13	<0.52	<0.11	<0.12	<0.12	<0.53	**0.26**	0.10J	<0.13	0.084J	<0.11	<0.11	0.044J	**0.27**
benzo(a)pyrene	50-32-8	46	46	<0.13	<0.13	<0.13	<2.1	0.12J	**0.39**	<0.16	<0.17	<0.70	0.050J	<0.16	<0.16	<0.70	**0.44**	**0.20**	<0.17	**0.21**	<0.14	<0.15	0.14J	0.70
indeno (1,2,3-cd) pyrene	193-39-5	1,400	18,000	<0.13	<0.13	<0.13	<2.1	0.084J	**0.19**	<0.16	<0.17	<0.70	0.040J	<0.16	<0.16	0.13J	**0.43**	0.13J	<0.17	**0.14**	<0.14	0.028J	0.083J	**0.43**
dibenzo(a,h)anthracene	53-70-3	23	270	<0.10	<0.10	<0.098	*<0.30	0.022J	0.058J	<0.12	<0.13	<0.52	<0.11	<0.12	<0.12	<0.53	**0.15**	0.036J	<0.13	0.038J	<0.11	<0.11	0.023J	**0.13**
benzo(g,h,i)perylene	191-24-2	180	180	<0.13	<0.13	<0.13	<2.1	0.091J	**0.20**	<0.16	<0.17	0.11J	0.048J	<0.16	<0.16	0.16J	**0.60**	**0.15**	<0.17	**0.14**	0.024J	<0.029J	0.089J	**0.41**

Appendix D3(c): Used Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results - Semivolatile Organic Compounds

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-221 (4.0-5.0)	FROG-SS-221 (9.0-10.0)	FROG-SS-221 (14.0-15.0)	FROG-SS-222 (0.0-2.0)	FROG-SS-222 (4.0-4.5)	FROG-SS-222 (9.0-10.0)	FROG-SS-222 (10.5-11.5)	FROG-SS-223 (0.0-2.0)	FROG-SS-223 (4.0-5.0)	FROG-SS-223 (9.0-10.0)	FROG-SS-223 (10.5-11.5)
Semivolatile Organic Compounds														
benzaldehyde	100-52-7	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
phenol	108-95-2	200	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-chloroethyl)ether	111-44-4	0.015	0.076	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-chlorophenol	95-57-8	4.4	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-methylphenol	95-48-7	170	490	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-chloroisopropyl)ether	108-60-1	30	30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
acetophenone	98-86-2	350	970	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-dioxane	123-91-1	0.65	2.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-nitrosodi-n-propylamine	621-64-7	0.0025	0.013	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-methylphenol / 4-methylphenol	108-39-4 / 106-44-5	170 / 17	490 / 49	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
hexachloroethane	67-72-1	0.56	0.56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
nitrobenzene	98-95-3	0.12	0.63	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
isophorone	78-59-1	10	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-nitrophenol	88-75-5	28	78	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-dimethylphenol	105-67-9	69	190	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis (2-chloroethoxy)methane	111-91-1	10	29	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-dichlorophenol	120-83-2	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
naphthalene	91-20-3	25	25	**0.064**	<0.040	<0.039	**0.20**	**0.67**	<0.040	<0.043	**0.070**	**0.042**	<0.041	<0.041
4-chloroaniline	106-47-8	0.42	1.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
hexachlorobutadiene	87-68-3	10	42	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
caprolactam	105-60-2	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-chloro-m-cresol	59-50-7	720	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-methylnapthalene	91-57-6	25	100	0.054J	<0.24	<0.24	**0.30**	**0.38**	<0.24	<0.26	0.15J	0.048J	<0.24	<0.25
hexachlorocyclopentadiene	77-47-4	91	91	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4,5-tetrachlorobenzene	95-94-3	4.6	13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-trichlorophenol	88-06-2	10	28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-trichlorophenol	95-95-4	2,100	5,900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-biphenyl	92-52-4	0.37	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-chloronaphthalene	91-58-7	6,000	17,000	<0.18	<0.20	<0.20	<0.18	<0.18	<0.20	<0.22	<0.17	<0.18	<0.20	<0.21
2-nitroaniline	88-74-4	0.011	0.044	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
dimethyl phthalate	131-11-3	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-dinitrotoluene	606-20-2	0.043	0.18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
acenaphthylene	208-96-8	2,400	6,600	0.034J	<0.16	<0.16	0.045J	0.047J	<0.16	<0.17	<0.13	<0.14	<0.16	<0.16
3-nitroaniline	99-09-2	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
acenaphthene	83-32-9	2,600	4,700	0.071J	<0.16	<0.16	0.10J	**2.2**	<0.16	<0.17	0.056J	<0.14	<0.16	<0.16
2,4-dinitrophenol	51-28-5	6.9	19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-nitrophenol	100-02-7	6	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-dinitrotoluene	121-14-2	0.21	0.88	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
dibenzofuran	132-64-9	90	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,4,6-tetrachlorophenol	58-90-2	1,600	4,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
diethyl phthalate	84-66-2	2,800	7800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
fluorene	86-73-7	2,800	3,800	0.070J	<0.20	<0.20	0.11J	**1.1**	<0.20	<0.22	0.044J	<0.18	<0.20	<0.21
4-chlorophenyl phenyl ether	7005-72-3	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-nitroaniline	100-01-6	3.3	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-dinitro-o-cresol	534-52-1	0.28	0.78	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix D3(c): Used Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results - Semivolatile Organic Compounds

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-221 (4.0-5.0)	FROG-SS-221 (9.0-10.0)	FROG-SS-221 (14.0-15.0)	FROG-SS-222 (0.0-2.0)	FROG-SS-222 (4.0-4.5)	FROG-SS-222 (9.0-10.0)	FROG-SS-222 (10.5-11.5)	FROG-SS-223 (0.0-2.0)	FROG-SS-223 (4.0-5.0)	FROG-SS-223 (9.0-10.0)	FROG-SS-223 (10.5-11.5)
n-nitrosodiphenylamine / diphenylamine	86-30-6 / 122-39-4	3/ 350	15 / 970	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-bromophenyl phenyl ether	101-55-3	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
hexachlorobenzene	118-74-1	0.96	0.96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pentachlorophenol	87-86-5	5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
atrazine	1912-24-9	0.3	0.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
phenanthrene	85-01-8	10,000	10,000	**0.74**	<0.12	<0.12	**0.79**	**11**	<0.12	0.037J	**0.13**	**0.12**	<0.12	<0.12
anthracene	120-12-7	350	350	**0.22**	<0.12	<0.12	**0.15**	**2.1**	<0.12	<0.13	<0.10	<0.10	<0.12	<0.12
carbazole	86-74-8	21	89	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
di-n-butyl phthalate	84-74-2	1,400	4,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
fluoranthene	206-44-0	3,200	3,200	**1.1**	<0.12	<0.12	**0.82**	**12**	<0.12	0.027J	0.080J	**0.13**	<0.12	<0.12
pyrene	129-00-0	2,200	2,200	**0.92**	<0.12	<0.12	**0.63**	**7.0**	<0.12	0.024J	**0.11**	**0.13**	<0.12	<0.12
butyl benzyl phthalate	85-68-7	2,900	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-3'-dichlorobenzidine	91-94-1	7.7	33	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(a)anthracene	56-55-3	26	340	0.55	<0.12	<0.12	0.43	5.4	<0.12	<0.13	0.062J	0.14	<0.12	<0.12
chrysene	218-01-9	220	230	0.51	<0.12	<0.12	0.43	5.0	<0.12	<0.13	0.11	0.18	<0.12	<0.12
bis(2-ethylhexyl) phthalate	117-81-7	130	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
di-n-octyl phthalate	117-84-0	10,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(b)fluoranthene	205-99-2	25	170	**0.61**	<0.12	<0.12	**0.46**	**6.4**	<0.12	<0.13	0.074J	**0.33**	<0.12	<0.12
benzo(k)fluoranthene	207-08-9	200	610	**0.21**	<0.12	<0.12	**0.12**	**1.8**	<0.12	<0.13	<0.10	0.083J	<0.12	<0.12
benzo(a)pyrene	50-32-8	46	46	0.48	<0.16	<0.16	0.31	**4.8**	<0.16	<0.17	0.041J	0.26	<0.16	<0.16
indeno (1,2,3-cd) pyrene	193-39-5	1,400	18,000	**0.28**	<0.16	<0.16	**0.20**	**3.0**	<0.16	<0.17	0.044J	**0.25**	<0.16	<0.16
dibenzo(a,h)anthracene	53-70-3	23	270	0.072J	<0.12	<0.12	**0.054**	**0.62**	<0.12	<0.13	<0.10	0.052J	<0.12	<0.12
benzo(g,h,i)perylene	191-24-2	180	180	**0.27**	<0.16	<0.16	**0.20**	**2.9**	<0.16	<0.17	0.064J	**0.30**	<0.16	<0.16

Appendix D3(d): Used Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results - Total Petroleum Hydrocarbons

All results are reported in mg/kg (ppm)	Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-212 (5.0-7.0)
Total Petroleum Hydrocarbons			
Gasoline Range Organics	-	-	**200**
Diesel Range Organics	-	-	**7,800**

Appendix D3(e): Used Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results - Polychlorinated Biphenyls

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-101 (0-2)	FROG-SS-101 (3-5)	FROG-SS-102 (0-2)	FROG-SS-102 (19-21)	FROG-SS-103 (0-2)	FROG-SS-103 (28-30)	FROG-SS-104 (0-2)	FROG-SS-104 (10-11.5)	FROG-SS-105 (1-3)	FROG-SS-105 (13-15)	FROG-SS-111 (0-2)	FROG-SS-111 (10-11)	FROG-SS-112 (0-2)	FROG-SS-112 (7-9)	FROG-SS-113 (0-2)	FROG-SS-113 (6-8)	FROG-SS-114 (0-2)	FROG-SS-114 (17-19)	FROG-SS-115 (0-2)	FROG-SS-115 (6.5-8.5)	FROG-SS-116 (0-2)	FROG-SS-116 (18.5-20.5)
Polychlorinated Biphenyls																									
Aroclor 1016	12674-11-2	66	190	<0.0574	<0.0587	<0.0529	<0.0586	<0.0528	<0.0675	<0.0596	<0.0566	<0.0527	<0.0632	<0.0537	<0.0576	<0.0509	<0.0499	<0.0577	<0.0600	<0.0578	<0.0628	<0.0529	<0.0585	<0.0516	<0.0565
Aroclor 1221	11104-28-2	0.16	0.68	<0.0574	<0.0587	<0.0529	<0.0586	<0.0528	<0.0675	<0.0596	<0.0566	<0.0527	<0.0632	<0.0537	<0.0576	<0.0509	<0.0499	<0.0577	<0.0600	<0.0578	<0.0628	<0.0529	<0.0585	<0.0516	<0.0565
Aroclor 1232	11141-16-5	0.13	0.54	<0.0574	<0.0587	<0.0529	<0.0586	<0.0528	<0.0675	<0.0596	<0.0566	<0.0527	<0.0632	<0.0537	<0.0576	<0.0509	<0.0499	<0.0577	<0.0600	<0.0578	<0.0628	<0.0529	<0.0585	<0.0516	<0.0565
Aroclor 1242	53469-21-9	4	17	<0.0574	<0.0587	<0.0529	<0.0586	<0.0528	<0.0675	<0.0596	<0.0566	<0.0527	<0.0632	<0.0537	<0.0576	<0.0509	<0.0499	<0.0577	<0.0600	<0.0578	<0.0628	<0.0529	<0.0585	<0.0516	<0.0565
Aroclor 1248	12672-29-6	16	67	<0.0574	<0.0587	<0.0529	<0.0586	<0.0528	<0.0675	<0.0596	<0.0566	<0.0527	<0.0632	<0.0537	<0.0576	<0.0509	<0.0499	<0.0577	<0.0600	<0.0578	<0.0628	<0.0529	<0.0585	<0.0516	<0.0565
Aroclor 1254	11097-69-1	140	380	<0.0574	<0.0587	<0.0529	<0.0586	0.0114J	<0.0675	<0.0596	<0.0566	0.0454J	<0.0632	<0.0537	<0.0576	<0.0509	<0.0499	<0.0577	<0.0600	<0.0578	<0.0628	<0.0529	<0.0585	<0.0516	<0.0565
Aroclor 1260	11096-82-5	150	630	0.0354J	<0.0587	**0.0558**	<0.0586	<0.0528	<0.0675	<0.0596	<0.0566	0.0214J	<0.0632	<0.0537	<0.0576	<0.0509	<0.0499	<0.0577	<0.0600	<0.0578	<0.0628	0.0126J	<0.0585	**0.112**	<0.0565
Aroclor 1262	37324-23-5	-	-	<0.0574	<0.0587	<0.0529	<0.0586	<0.0528	<0.0675	<0.0596	<0.0566	<0.0527	<0.0632	<0.0537	<0.0576	<0.0509	<0.0499	<0.0577	<0.0600	<0.0578	<0.0628	<0.0529	<0.0585	<0.0516	<0.0565
Aroclor 1268	11100-14-4	-	-	0.0179J	<0.0587	<0.0529	<0.0586	<0.0528	<0.0675	<0.0596	<0.0566	<0.0527	<0.0632	<0.0537	<0.0576	<0.0509	<0.0499	<0.0577	<0.0600	<0.0578	<0.0628	0.00717J	<0.0585	**0.196**	<0.0565
Total PCBs	1336-36-3	9.8	9.8	0.0533J	<0.0587	**0.0558**	<0.0586	0.0114J	<0.0675	<0.0596	<0.0566	0.0668J	<0.0632	<0.0537	<0.0576	<0.0509	<0.0499	<0.0577	<0.0600	<0.0578	<0.0628	0.0198J	<0.0585	**0.308**	<0.0565

Appendix D3(e): Used Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results - Polychlorinated Biphenyls

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-117 (0-2)	FROG-SS-DUP-103	FROG-SS-117 (11-13)	FROG-SS-118 (0-2)	FROG-SS-118 (10-12)	FROG-SS-DUP-102	FROG-SS-119 (0-0.5)	FROG-SS-119 (0.5-1)	FROG-SS-120 (0-2)	FROG-SS-120 (2-3.5)	FROG-SS-121 (0-2)	FROG-SS-121 (20-21.5)	FROG-SS-122 (1.5-3.5)	FROG-SS-122 (30-32)	FROG-SS-123 (1-3)	FROG-SS-123 (17-19)	FROG-SS-DUP-104	FROG-SS-124 (FLOOR)	FROG-SS-125 (FLOOR)	FROG-SS-126 (FLOOR)	FROG-SS-DUP-105	FROG-SS-127 (FLOOR)
Polychlorinated Biphenyls																									
Aroclor 1016	12674-11-2	66	190	<0.0513	<0.0495	<0.0558	<0.057	<0.0574	<0.0604	<0.0522	<0.0519	<0.0510	<0.0516	<0.0515	<0.0586	<0.0563	<0.0694	<0.0538	<0.0601	<0.0580	<0.0499	<0.0480	<0.0500	<0.0491	<0.0500
Aroclor 1221	11104-28-2	0.16	0.68	<0.0513	<0.0495	<0.0558	<0.057	<0.0574	<0.0604	<0.0522	<0.0519	<0.0510	<0.0516	<0.0515	<0.0586	<0.0563	<0.0694	<0.0538	<0.0601	<0.0580	<0.0499	<0.0480	<0.0500	<0.0491	<0.0500
Aroclor 1232	11141-16-5	0.13	0.54	<0.0513	<0.0495	<0.0558	<0.057	<0.0574	<0.0604	<0.0522	<0.0519	<0.0510	<0.0516	<0.0515	<0.0586	<0.0563	<0.0694	<0.0538	<0.0601	<0.0580	<0.0499	<0.0480	<0.0500	<0.0491	<0.0500
Aroclor 1242	53469-21-9	4	17	<0.0513	<0.0495	<0.0558	<0.057	<0.0574	<0.0604	0.00929J	0.0177J	<0.0510	<0.0516	<0.0515	<0.0586	<0.0563	<0.0694	<0.0538	<0.0601	<0.0580	<0.0499	<0.0480	0.0166J	0.0156J	<0.0500
Aroclor 1248	12672-29-6	16	67	<0.0513	<0.0495	<0.0558	<0.057	<0.0574	<0.0604	<0.0522	<0.0519	<0.0510	<0.0516	<0.0515	<0.0586	<0.0563	<0.0694	<0.0538	<0.0601	<0.0580	0.0242J	<0.0480	<0.0500	<0.0491	<0.0500
Aroclor 1254	11097-69-1	140	380	<0.0513	<0.0495	<0.0558	<0.057	<0.0574	<0.0604	0.0280J	0.0331J	<0.0510	**0.117**	<0.0515	<0.0586	<0.0563	<0.0694	<0.0538	<0.0601	<0.0580	0.0207J	<0.0480	0.0197J	0.0145J	<0.0500
Aroclor 1260	11096-82-5	150	630	<0.0513	0.0178J	**0.087**	<0.057	<0.0574	<0.0604	0.0257J	0.0198J	**0.102**	**0.133**	<0.0515	<0.0586	<0.0563	<0.0694	<0.0538	<0.0601	<0.0580	0.0283J	<0.0480	0.00941J	0.0108J	<0.0500
Aroclor 1262	37324-23-5	-	-	<0.0513	<0.0495	<0.0558	<0.057	<0.0574	<0.0604	<0.0522	<0.0519	<0.0510	<0.0516	<0.0515	<0.0586	<0.0563	<0.0694	<0.0538	<0.0601	<0.0580	<0.0499	<0.0480	<0.0500	<0.0491	<0.0500
Aroclor 1268	11100-14-4	-	-	<0.0513	0.0138J	**0.0845**	<0.057	<0.0574	<0.0604	<0.0522	<0.0519	**0.0992**	**0.0858**	<0.0515	<0.0586	<0.0563	<0.0694	<0.0538	<0.0601	<0.0580	<0.0499	<0.0480	<0.0500	<0.0491	<0.0500
Total PCBs	1336-36-3	9.8	9.8	<0.0513	0.0316J	**0.172**	<0.057	<0.0574	<0.0604	0.0630J	0.0706J	**0.201**	**0.336**	<0.0515	<0.0586	<0.0563	<0.0694	<0.0538	<0.0601	<0.0580	0.0732J	<0.0480	0.0457J	0.0409J	<0.0500

Appendix D3(f): Used Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results - Dioxins and Furans

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Used Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-128 (0-0.5)
Dioxins and Furans				
2,3,7,8-TCDF	51207-31-9	-	-	**0.0000030**
2,3,7,8-TCDD	1746-01-6	0.032	0.032	**0.0000014**
1,2,3,7,8-PeCDF	57117-41-6	-	-	<0.0000050
2,3,4,7,8-PeCDF	57117-31-4	-	-	<0.0000050
1,2,3,7,8-PeCDD	40321-76-4	-	-	**0.000015**
1,2,3,4,7,8-HxCDF	70648-26-9	-	-	**0.000028 P**
1,2,3,6,7,8-HxCDF	57117-44-9	-	-	**0.000015**
2,3,4,6,7,8-HxCDF	60851-34-5	-	-	**0.000017**
1,2,3,7,8,9-HxCDF	72918-21-9	-	-	<0.0000050
1,2,3,4,7,8-HxCDD	39227-28-6	-	-	**0.000029**
1,2,3,6,7,8-HxCDD	57653-85-7	-	-	**0.000045**
1,2,3,7,8,9-HxCDD	19408-74-3	-	-	**0.000066**
1,2,3,4,6,7,8-HpCDF	67562-39-4	-	-	**0.00035**
1,2,3,4,7,8,9-HpCDF	55673-89-7	-	-	**0.000024**
1,2,3,4,6,7,8-HpCDD	35822-46-9	-	-	**0.0014**
OCDF	39001-02-0	-	-	**0.00087**
OCDD	3268-87-9	-	-	**0.022**
Toxic Equivalency Quotient	-	-	-	**0.000063**

Grey results are not detected above the laboratory reporting limit

Bold results are detected above laboratory reporting limit

Yellow Highlighted results exceed the PADEP residential soil-to-groundwater numeric values at a used aquifer with total dissolved solids ≤2500 (the higher of either the generic value or 100 times the groundwater MSC)

Orange Highlighted results exceed the PADEP non-residential soil-to-groundwater numeric values at a used aquifer with total dissolved solids ≤2500 (the higher of either the generic value or 100 times the groundwater MSC)

Gray Highligted results have a method detection limit that exceeds at least one MSC

J: Estimated value. The target analyte concentration is below the laboratory reporting limit, but above the method detection limit

B: The analyte was detected above the reporting limit in the associated method blank.

NA: Not Analyzed

Values following < are the laboratory reporting limit

Values following *< are the method detection limit and shown where the laboratory reporting limit exceeds an MSC

All values are expressed in milligrams per kilogram (mg/kg) = 1 part per million (ppm)

Sample results are compared to PADEP MSCs for several scenarios that are provided in 25 Pa. Code Chapter 250, Administration of the Land Recycling Program.

Appendix D4(a): Nonuse Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results - Inorganics

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Nonuse Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Nonuse Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-101 (0-2)	FROG-SS-101 (3-5)	FROG-SS-102 (0-2)	FROG-SS-102 (19-21)	FROG-SS-103 (0-2)	FROG-SS-103 (28-30)	FROG-SS-104 (0-2)	FROG-SS-104 (10-11.5)	FROG-SS-105 (1-3)	FROG-SS-105 (13-15)	FROG-SS-108 (1-3)	FROG-SS-108 (5.5-7.5)	FROG-SS-DUP-101	FROG-SS-109 (2.5-4.5)	FROG-SS-109 (8-10)	FROG-SS-110 (1.5-3.5)	FROG-SS-110 (5-7)	FROG-SS-111 (0-2)	FROG-SS-111 (10-11)	FROG-SS-112 (0-2)	FROG-SS-112 (7-9)	FROG-SS-115 (0-2)
Metals																									
aluminum	7429-90-5	-	-	**12,400**	**12,800**	**8,950**	**8,980**	**12,400**	**11,200**	**13,200**	**12,400**	**7,620**	**11,700**	**7,740**	**13,600**	**23,900**	**11,100**	**15,600**	**3,360**	**2,750**	**14,600**	**12,300**	**2,580**	**5,770**	**6,030**
antimony	7440-36-0	27,000	27,000	<4.73	<4.81	<4.48	<4.76	<21.8	<14.0	<11.9	<4.79	<22.6	<12.9	<4.87	<5.16	<24.6	<4.65	<12.0	<20.5	<20.3	<4.42	<4.95	<8.3	<1.68	<21.0
arsenic	7440-38-2	29,000	29,000	**8.94**	**5.67**	**6.41**	**7.14**	**16.3**	**10.2**	**7.64**	**10.5**	**138**	**23.8**	**38.0**	**16.9**	**17.4**	**5.95**	**11.1**	**4.44**	**5.93**	**6.64**	**5.64**	**2.77**	**9.35**	**7.93**
barium	7440-39-3	190,000	190,000	**63.8**	**25.4**	**60.7**	**30.8**	**212**	**63.6**	**37.0**	**95.9**	**102**	**62.3**	**374**	**68.8**	**75.4**	**152**	**55.8**	**124**	**85.6**	**97.1**	**70.5**	**49.2**	**43**	**78.2**
beryllium	7440-41-7	190,000	190,000	**0.648**	**1.46**	**0.748**	**1.84**	1.68J	**3.35**	1.08J	**1.38**	0.696J	**5.80**	**1.71**	**3.51**	2.28J	**1.10**	**1.99**	<2.05	<2.03	**0.890**	**1.33**	0.110J	**0.946**	0.468J
cadmium	7440-43-9	190,000	190,000	0.061J	0.095J	0.218J	0.097J	0.343J	0.212J	<2.37	0.107J	<4.52	0.209J	0.158J	<1.03	<4.92	0.093J	0.367J	<4.11	<4.06	<0.884	0.185J	0.117J	0.094J	<4.20
calcium	7440-70-2	-	-	**1,810**	**2,110**	**13,800**	**1,780**	**1,180**	**2,320**	**1,470**	**1,230**	**18,500**	**3,270**	**13,200**	**44,900**	**4,120**	**1,520**	**2,080**	**4,790**	**4,270**	**4,980**	**8,080**	**5,550**	**10,100**	**2,580**
chromium, total	7440-47-3	-	-	**24.9**	**33.7**	**34.2**	**34.9**	**110**	**32.4**	**33.3**	**25.1**	**96.6**	**29.4**	**16.0**	**20.7**	**44.9**	**20.2**	**42.0**	**257**	**257**	**23.7**	**28.3**	**213**	**90.1**	**101**
chromium, trivalent	16065-83-1	190,000	190,000	**24.0J**	**33.7**	**34.2**	**34.9**	**109**	**32.4**	**33.3**	**25.1**	**96.6**	**29.2J**	**16.0**	**20.2J**	**44.5J**	**20.2**	**41.4J**	**257**	**254**	**23.7**	**28.3**	**208**	**89.9J**	**101**
chromium, hexavalent	18540-29-9	190,000	190,000	0.911J	<1.01	<0.897	<1.01	**1.28**	<1.15	<1.00	<0.992	<0.913	0.244J	<1.03	0.442J	0.410J	<0.974	0.548J	<0.834	**2.58**	<0.907	<0.999	**4.51**	0.184J	<0.871
cobalt	7440-48-4	45,000	130,000	**10.0**	**14.2**	**8.57**	**15.2**	**101**	**14.7**	**32.7**	**12.3**	**18.2**	**9.66**	**14.0**	**9.14**	**20.0**	**11.2**	**27.8**	**65.7**	**60.5**	**16.9**	**16.4**	52.6	30.8	**12.6**
copper	7440-50-8	190,000	190,000	**16.6**	**23.1**	**40.8**	**21.8**	**16.0**	**26.8**	**19.4**	**14.9**	**140**	**45.8**	**76.8**	**21.0**	**28.7**	**9.33**	**21.6**	**157**	**147**	**45.5**	**17.6**	35.2	31.9	**73.1**
iron	7439-89-6	-	-	**26,900**	**37,100**	**20,700**	**26,400**	**73,500**	**36,600**	**35,600**	**27,300**	**64,600**	**50,400**	**19,400**	**29,600**	**60,500**	**21,000**	**56,900**	**57,500**	**52,200**	**38,200**	**35,600**	**31,000**	**30,400**	**32,900**
lead	7439-92-1	190,000	190,000	**22.3**	**18.3**	**51.2**	**18.6**	**46.0**	**17.8**	**21.0**	**13.6**	**79.5**	**22.3**	**115**	**17.6**	**31.8**	**17.4**	**17.4**	**170**	**165**	**17.4**	**22.6**	**16.0**	**17.4**	**63.4**
magnesium	7439-95-4	-	-	**1,010**	**518**	**3,400**	**1,730**	**475**	**1,350**	**10,000**	**2,680**	**8,020**	**892**	**1,790**	**18,200**	**2,000**	**1,400**	**991**	**124,000**	**114,000**	**6,700**	**4,300**	**97,800**	**46,900**	**12,600**
manganese	7439-96-5	190,000	190,000	**644**	**137**	**1,130**	**79.8**	**4,780**	**141**	**715**	**471**	**8,830**	**502**	**443**	**598**	**1020**	**920**	**1,420**	**9,540**	**8,700**	**643**	**218**	**3,670**	**3,240**	**20,500**
mercury	7439-97-6	10,000	10,000	<0.086	**0.120**	**0.107**	<0.103	0.081J	0.096J	<0.081	<0.090	0.062J	**0.144**	**0.237**	**0.0880**	0.093J	<0.078	**0.132**	<0.083	<0.084	<0.085	0.082J	0.050J	0.061J	0.047J
nickel	7440-02-0	190,000	190,000	**12.6**	**17.1**	**22.5**	**21.5**	**36.6**	**35.3**	**103**	**20.9**	**96.8**	**44.9**	**24.0**	**30.6**	**44.2**	**11.4**	**33.4**	**1,210**	**1,100**	**30.2**	**16.4**	**911**	**425**	**120**
potassium	7440-09-7	-	-	**580**	**401**	**423**	**516**	285J	639J	538J	**681**	488J	522J	**580**	**713**	1,070J	**511**	**639**	<1,030	246J	**605**	**577**	**<415**	408	422J
selenium	7782-49-2	26,000	26,000	<1.89	<1.92	<1.79	<1.9	<8.73	<5.61	<4.75	<1.91	<9.03	<5.15	0.795J	<2.06	<9.84	0.502J	<4.78	<8.22	<8.12	<1.77	<1.98	<3.32	<1.68	<8.40
silver	7440-22-4	84,000	84,000	<0.473	<0.481	<0.448	<0.476	<2.18	<1.40	<1.19	<0.479	<2.26	<1.29	0.460J	<0.516	<2.46	<0.465	<1.20	<2.05	<2.03	<0.442	<0.495	<0.830	<0.421	<2.10
sodium	7440-23-5	-	-	<189	<192	<179	<190	<873	<561	<475	<191	<903	<515	**392**	142J	<984	**490**	<478	<822	<812	<177	<198	<332	272	<840
thallium	7440-28-0	14,000	14,000	<1.89	<1.92	<1.79	<1.9	*<3.94	*<2.53	*<2.14	<1.91	*<4.07	*<2.32	<1.95	<2.06	*<4.44	<1.86	*<2.16	*<3.70	*<3.66	<1.77	<1.98	*<1.50	<1.68	*<3.79
vanadium	7440-62-2	190,000	190,000	**36.7**	**49.9**	**28.0**	**31.3**	**81.6**	**41.4**	**40.3**	**35.6**	**28.5**	**62.6**	**49.0**	**34.0**	**62.4**	**30.8**	**51.7**	**8.21**	**7.56**	**27.0**	**34.9**	**5.34**	**26.7**	**16.3**
zinc	7440-66-6	190,000	190,000	**30.6**	**26.8**	**78.4**	**46.5**	**36.8**	**58.0**	**33.6**	**44.4**	**88.8**	**67.3**	**216**	**43.0**	**61.7**	**51.3**	**85.2**	**84.6**	**85.2**	**71.7**	**94.4**	**22.2**	**39.3**	**76.7**
Free Cyanide																									
cyanide, free	57-12-5	190,000	190,000	<1.2	<1.3	<1.1	<1.3	<1.1	<1.4	<1.2	<1.2	<1.1	<1.4	NA	NA	NA	NA	NA	NA	NA	<1.1	<1.2	<1.1	<1.1	<1.1

Appendix D4(a): Nonuse Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results - Inorganics

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Nonuse Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Nonuse Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-115 (6.5-8.5)	FROG-SS-116 (0-2)	FROG-SS-116 (18.5-20.5)	FROG-SS-117 (0-2)	FROG-SS-DUP-103	FROG-SS-117 (11-13)	FROG-SS-118 (0-2)	FROG-SS-118 (10-12)	FROG-SS-DUP-102	FROG-SS-119 (0-0.5)	FROG-SS-119 (0.5-1)	FROG-SS-120 (0-2)	FROG-SS-120 (2-3.5)	FROG-SS-121 (0-2)	FROG-SS-121 (20-21.5)	FROG-SS-122 (1.5-3.5)	FROG-SS-122 (30-32)	FROG-SS-123 (1-3)	FROG-SS-123 (17-19)	FROG-SS-DUP-104	FROG-SS-124 (FLOOR)	FROG-SS-125 (FLOOR)
Metals																										
aluminum	7429-90-5	-	-	**1,0100**	**2,440**	**8,240**	**4,820**	**4,320**	**9,170**	**12,000**	**15,700**	**12,900**	**3,440**	**6,930**	**3,960**	**5,980**	**5,160**	**14,800**	**4,940**	**7,760**	**1,1200**	**9,940**	**9,520**	**2,330**	**2,150**
antimony	7440-36-0	27,000	27,000	<4.89	<20.8	<4.82	<4.04	<4.02	<4.58	<23.9	<24.3	<9.79	<42.5	<21.6	<8.5	<8.70	<21.6	<4.51	<4.52	<5.87	<4.48	<11.9	<11.8	<20.1	<19.6
arsenic	7440-38-2	29,000	29,000	**9.74**	**11.3**	**6.28**	**8.96**	**6.62**	**7.31**	**18.9**	**12.7**	**24.7**	**16.9**	**15.4**	**12.1**	**22.0**	**22.1**	**13.8**	**8.78**	**14.0**	**7.02**	**13.8**	**14.3**	**8.43**	**6.01**
barium	7440-39-3	190,000	190,000	**22.7**	**33.3**	**35.1**	**58.6**	**46.0**	**60.0**	**439**	**102**	**65.6**	**144**	**251**	**102**	**101**	**120**	**147**	**87.7**	**324**	**95.3**	**35.1**	**33.4**	**323**	**252**
beryllium	7440-41-7	190,000	190,000	**1.79**	<2.08	**1.59**	0.377J	0.273J	**1.22**	1.98J	**4.21**	**3.99**	<4.25	0.301J	0.188J	0.491J	0.499J	**1.82**	**0.620**	**2.00**	**0.956**	0.620J	0.584J	<2.01	<1.96
cadmium	7440-43-9	190,000	190,000	0.120J	1.30J	0.840J	0.116J	<0.805	<0.915	0.757J	0.369J	0.302J	2.56J	0.700J	0.332J	1.12J	<4.31	0.103J	0.136J	<1.17	0.055J	<2.38	<2.36	0.867J	0.268J
calcium	7440-70-2	-	-	**602**	**6,600**	**1,280**	**7,880**	**36,300**	**43,500**	**23,400**	**10,300**	**60,700**	**44,500**	**129,000**	**3,210**	**9,230**	**42,700**	**3,720**	**4,980**	**29,500**	**3,800**	**2,200**	**2,420**	**22,200**	**2,180**
chromium, total	7440-47-3	-	-	**27.2**	**332**	**53.9**	**85.9**	**78.0**	**78.6**	**162**	**41.6**	**35.0**	**1,390**	**222**	**94.6**	**413**	**60.9**	**32.3**	**15.2**	**20.5**	**24.8**	**50.9**	**70.9**	**420**	**244**
chromium, trivalent	16065-83-1	190,000	190,000	**27.2**	**317**	**51.3**	**85.9**	**77.4J**	**76.9**	**162**	**41.6**	**34.6J**	**1,380**	**220**	**94.6**	**411**	**60.9**	**31.9J**	**14.3J**	**20.1J**	**23.9J**	**50.5J**	**70.6J**	**420J**	**244J**
chromium, hexavalent	18540-29-9	190,000	190,000	<0.988	**14.6**	<0.988	<0.846	0.629J	**1.71**	<0.978	<0.995	0.351J	**4.20**	**2.44**	<0.876	**1.94**	<0.876	0.393J	0.853J	0.431J	0.862J	0.422J	0.346J	0.419J	0.233J
cobalt	7440-48-4	45,000	130,000	**38.8**	**24.6**	**23.0**	**14.4**	**13.3**	**16.4**	**66.0**	**32.9**	**29.8**	**45.6**	**15.1**	**13.7**	**28.6**	**34.4**	**13.5**	**12.5**	**18.2**	**15.4**	**7.33**	**7.02**	**56.6**	**50.1**
copper	7440-50-8	190,000	190,000	**34.9**	**195**	**25.8**	**69.8**	**57.2**	**22.8**	**69.5**	**31.4**	**26.0**	**649**	**127**	**93.7**	**196**	**276**	**39.8**	**24.2**	**33.6**	**10.1**	**24.7**	**23.0**	**559**	**125**
iron	7439-89-6	-	-	**35,000**	**53,300**	**24,900**	**29,900**	**28,000**	**40,100**	**98,200**	**83,900**	**74,200**	**194,000**	**50,500**	**47,200**	**62,500**	**111,000**	**30,200**	**25,500**	**32,300**	**22,500**	**41,300**	**40,800**	**77,100**	**41,600**
lead	7439-92-1	190,000	190,000	**41.0**	**29.0**	**25.3**	**38.8**	**25.0**	**20.0**	**73.1**	**24.3**	**18.8**	**124**	**130**	**46.1**	**58.4**	**290**	**24.6**	**24.2**	**22.4**	**28.5**	**17.5**	**17.4**	**47.5**	17.6J
magnesium	7439-95-4	-	-	**1,070**	**43,400**	**2,700**	**15,600**	**18,800**	**27,200**	**27,800**	**2,070**	**2,000**	**54,400**	**30,700**	**14,400**	**40,600**	**8,240**	**4,620**	**746**	**1,140**	**1,560**	**357**	**347**	**135,000**	**121,000**
manganese	7439-96-5	190,000	190,000	**138**	**8,260**	**452**	**5,630**	**4,290**	**1,030**	**7,580**	**924**	**611**	**60,900**	**36,900**	**13,300**	**10,700**	**8,880**	**3,070**	**572**	**2,510**	**989**	**252**	**260**	**6,420**	**6,430**
mercury	7439-97-6	10,000	10,000	**0.114**	0.055J	0.070J	<0.077	<0.071	<0.096	**0.840**	**0.104**	**0.237**	0.054J	**0.100**	**0.107**	**0.113**	**0.149**	**0.192**	<0.09	**0.142**	**0.093**	<0.100	<0.096	<0.083	<0.065
nickel	7440-02-0	190,000	190,000	**31.6**	**429**	**25.0**	**152**	**166**	**33.3**	**251**	**41.5**	**35.4**	**568**	**171**	**141**	**368**	**114**	**27.9**	**12.9**	**45.3**	**13.1**	**14.5**	**13.7**	**1,250**	**1,130**
potassium	7440-09-7	-	-	**346**	<1,040	**431**	**270**	**271**	**546**	545J	825J	**698**	<2,130	534J	268J	362J	504J	**1,250**	**540**	**505**	**637**	323J	311J	431J	306J
selenium	7782-49-2	26,000	26,000	<1.96	<8.32	<1.93	<1.61	<1.61	<1.83	<9.57	<9.74	<3.91	<17.0	<8.64	<3.4	<3.48	<8.62	<1.8	<1.81	<2.35	<1.79	<4.76	<4.73	<8.05	<7.83
silver	7440-22-4	84,000	84,000	<0.489	<2.08	<0.482	0.244J	<0.402	<0.458	<2.39	<2.43	<0.979	<4.25	<2.16	<0.850	<0.870	**2.20**	<0.451	<0.452	<0.587	<0.448	<1.19	<1.18	1.36J	<1.96
sodium	7440-23-5	-	-	<196	<832	<193	<161	<161	<183	<957	<974	<391	<1,700	<864	**798**	**505**	<862	<180	<181	<235	<179	<476	<473	**2,950**	**4,780**
thallium	7440-28-0	14,000	14,000	<1.96	*<3.75	<1.93	<1.61	<1.61	<1.83	*<4.32	*<4.39	*<1.76	*<38.4	*<3.90	*<1.53	*<1.57	*<3.89	<1.8	<1.81	*<1.06	<1.79	*<2.14	*<2.13	*<3.63	*<3.53
vanadium	7440-62-2	190,000	190,000	**52.8**	**14.9**	**53.5**	**15.5**	**12.1**	**38.9**	**57.4**	**82.4**	**73.1**	**80.5**	**15.6**	**14.3**	25.0	44.3	41.4	27.1	46.9	29.9	81.4	78.7	22.3	11.0
zinc	7440-66-6	190,000	190,000	**82**	**63.2**	**31.6**	**47.9**	**39.7**	**29**	**148**	**63.2**	**48.4**	**399**	**205**	**72**	**192**	**240**	**34.1**	**17.8**	**51.4**	**32.7**	**35.2**	**34.5**	**299**	**112**
Free Cyanide																									
cyanide, free	57-12-5	190,000	190,000	<1.2	<1.1	<1.2	<1.0	<1.0	<1.2	<1.2	<1.2	<1.2	<1.1	<1.1	<1.1	<1.1	<1.1	<1.2	<1.2	<1.5	<1.2	<1.2	<1.2	<1.0	<1.0

Appendix D4(a): Nonuse Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results - Inorganics

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Nonuse Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Nonuse Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-126 (FLOOR)	FROG-SS-DUP-105	FROG-SS-127 (FLOOR)	FROG-SS-201(1.0-2.0)	FROG-SS-201 (4.5-5.0)	FROG-SS-201 (9.5-10.)	FROG-SS-201 (14.5-15.0)	FROG-SS-202 (1.0-2.0)	FROG-SS-202 (5.0-5.5)	FROG-SS-202 (7.5-8.0)	FROG-SS-202 (9.0-9.5)	FROG-SS-203 (1.5-2.0)	FROG-SS-204 (1.0-2.0)	FROG-SS-204 (3.5-4.0)	FROG-SS-205 (1.0-2.0)	FROG-SS-DUP-202	FROG-SS-205 (3.5-4.0)	FROG-SS-206 (0.5-2.0)	FROG-SS-206 (4.5-5.0)	FROG-SS-206 (9.5-10.0)
Metals																							
aluminum	7429-90-5	-	-	**4,660**	**3,110**	**4,490**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
antimony	7440-36-0	27,000	27,000	<19.2	<19.8	<19.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
arsenic	7440-38-2	29,000	29,000	**9.61**	**9.26**	**14.3**	3.63J	**8.76**	**7.57**	**9.84**	**9.38**	**18.8**	**16.8**	**18.2**	**4.46**	**9.43**	**10.9**	**5.38**	**4.55**	**11.2**	**13.3**	**7.76**	**10.1**
barium	7440-39-3	190,000	190,000	**466**	**341**	**152**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
beryllium	7440-41-7	190,000	190,000	<1.92	<1.98	0.280J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cadmium	7440-43-9	190,000	190,000	0.961J	0.649J	1.06J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
calcium	7440-70-2	-	-	**17,100**	**4,830**	**20,000**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, total	7440-47-3	-	-	**676**	**506**	**1,300**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, trivalent	16065-83-1	190,000	190,000	**676**	**506**	**1,300J**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, hexavalent	18540-29-9	190,000	190,000	<0.810	<0.807	0.222J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cobalt	7440-48-4	45,000	130,000	**69.9**	**57.4**	**44.7**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
copper	7440-50-8	190,000	190,000	**404**	**297**	**1,300**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
iron	7439-89-6	-	-	**99,900**	**84,400**	**158,000**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**50,300**	**41,300**	**43,400**	**37,200**	**31,200**	**31,900**
lead	7439-92-1	190,000	190,000	**93.8**	**67.7**	**146**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
magnesium	7439-95-4	-	-	**148,000**	**124,000**	**54,200**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
manganese	7439-96-5	190,000	190,000	**20,300**	**11,700**	**30,200**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**13,600**	**11,200**	**2250**	**925**	**189**	**1,680**
mercury	7439-97-6	10,000	10,000	<0.075	<0.080	<0.072	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
nickel	7440-02-0	190,000	190,000	**1,270**	**1,110**	**620**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
potassium	7440-09-7	-	-	421J	266J	485J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
selenium	7782-49-2	26,000	26,000	<7.69	<7.94	<7.79	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
silver	7440-22-4	84,000	84,000	<1.92	<1.98	<1.95	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sodium	7440-23-5	-	-	**2,810**	**1,920**	579J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
thallium	7440-28-0	14,000	14,000	*<17.3	<7.94	*<17.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
vanadium	7440-62-2	190,000	190,000	27.7	20.0	60.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
zinc	7440-66-6	190,000	190,000	**296**	**205**	**127**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Free Cyanide																							
cyanide, free	57-12-5	190,000	190,000	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix D4(a): Nonuse Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results - Inorganics

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Nonuse Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Nonuse Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-206 (10.5-11.0)	FROG-SS-207 (0.5-2.0)	FROG-SS-207 (4.5-5.0)	FROG-SS-207 (5.5-6.0)	FROG-SS-207 (6.5-7.0)	FROG-SS-208 (0.0-2.0)	FROG-SS-208 (4.5-5.0)	FROG-SS-208 (9.5-10.0)	FROG-SS-208 (12.0-12.5)	FROG-SS-209 (0.0-2.0)	FROG-SS-209 (4.5-5.0)	FROG-SS-209 (9.5-10.0)	FROG-SS-209 (14.5-15.0)	FROG-SS-210 (0.0-2.0)	FROG-SS-210 (4.5-5.0)	FROG-SS-210 (9.5-10.0)	FROG-SS-210 (14.5-15.0)	FROG-SS-211 (0.0-2.0)	FROG-SS-211 (4.5-5.0)	FROG-SS-211 (7.5-8.0)
Metals																							
aluminum	7429-90-5	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
antimony	7440-36-0	27,000	27,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
arsenic	7440-38-2	29,000	29,000	**20.0**	**38.9**	**14.8**	**29.6**	**55.5**	**37.4**	**8.37**	**9.68**	**19**	**2.55**	**6.96**	**9.79**	**4.62**	**5.54**	**5.94**	**15.4**	**23**	**16.5**	**6.78**	**6.93**
barium	7440-39-3	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
beryllium	7440-41-7	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cadmium	7440-43-9	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
calcium	7440-70-2	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, total	7440-47-3	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, trivalent	16065-83-1	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, hexavalent	18540-29-9	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cobalt	7440-48-4	45,000	130,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	**5.70**	**4.80**	**9.53**	**17.4**	**6.68**	**7.93**	**17.8**	**12.7**	**63.4**	**9.88**	**8.36**
copper	7440-50-8	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
iron	7439-89-6	-	-	**40,900**	**84,100**	**70,200**	**103,000**	**54,600**	**144,000**	**37,800**	**42,600**	**44,900**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
lead	7439-92-1	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
magnesium	7439-95-4	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
manganese	7439-96-5	190,000	190,000	**536**	**51,600**	**615**	**904**	**814**	**6,500**	**216**	**1,660**	**891**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
mercury	7439-97-6	10,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
nickel	7440-02-0	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
potassium	7440-09-7	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
selenium	7782-49-2	26,000	26,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
silver	7440-22-4	84,000	84,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sodium	7440-23-5	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
thallium	7440-28-0	14,000	14,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
vanadium	7440-62-2	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
zinc	7440-66-6	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Free Cyanide																							
cyanide, free	57-12-5	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix D4(a): Nonuse Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results - Inorganics

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Nonuse Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Nonuse Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-211 (10.0-10.5)	FROG-SS-212 (0.0-2.0)	FROG-SS-212 (4.5-5.0)	FROG-SS-212 (9.5-10.0)	FROG-SS-212 (13.5-14.0)	FROG-SS-213 (0.0-2.0)	FROG-SS-213 (4.5-5.0)	FROG-SS-213 (9.5-10.0)	FROG-SS-213 (14.5-15.0)	FROG-SS-214 (0.0-2.0)	FROG-SS-214 (4.0-4.5)	FROG-SS-214 (5.0-5.5)	FROG-SS-214 (9.0-9.5)	FROG-SS-215 (0.0-2.0)	FROG-SS-215 (4.5-5.0)	FROG-SS-DUP-201	FROG-SS-215 (9.5-10.0)	FROG-SS-215 (14.5-15.0)	FROG-SS-216 (0.0-2.0)	FROG-SS-216 (4.5-5.0)
Metals																							
aluminum	7429-90-5	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
antimony	7440-36-0	27,000	27,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
arsenic	7440-38-2	29,000	29,000	**9.49**	**15.6**	**6.78**	**6.18**	**7.30**	**2.79**	**4.37**	**4.58**	**5.27**	**3.78**	**9.55**	**4.04**	**11.3**	**3.10**	**4.17**	**3.88**	**1.55**	**6.23**	**5.08**	**1.74**
barium	7440-39-3	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
beryllium	7440-41-7	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cadmium	7440-43-9	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
calcium	7440-70-2	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, total	7440-47-3	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, trivalent	16065-83-1	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, hexavalent	18540-29-9	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cobalt	7440-48-4	45,000	130,000	**5.94**	**57.2**	**75.1**	**39.6**	**13.1**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
copper	7440-50-8	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
iron	7439-89-6	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
lead	7439-92-1	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
magnesium	7439-95-4	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
manganese	7439-96-5	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
mercury	7439-97-6	10,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
nickel	7440-02-0	190,000	190,000	NA	NA	NA	NA	NA	**56.9**	**10.9**	**17.8**	**18.5**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
potassium	7440-09-7	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
selenium	7782-49-2	26,000	26,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
silver	7440-22-4	84,000	84,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sodium	7440-23-5	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
thallium	7440-28-0	14,000	14,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
vanadium	7440-62-2	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
zinc	7440-66-6	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Free Cyanide																							
cyanide, free	57-12-5	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix D4(a): Nonuse Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results - Inorganics

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Nonuse Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Nonuse Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-216 (6.0-7.0)	FROG-SS-216 (7.5-8.0)	FROG-SS-217 (0.0-2.0)	FROG-SS-217 (4.0-5.0)	FROG-SS-217 (9.0-10.0)	FROG-SS-217 (11.0-12.0)	FROG-SS-218 (0.0-2.0)	FROG-SS-218 (4.0-5.0)	FROG-SS-218 (9.0-10.0)	FROG-SS-218 (11.0-12.0)	FROG-SS-219 (0.0-2.0)	FROG-SS-DUP-204	FROG-SS-219 (4.0-5.0)	FROG-SS-219 (5.5-6.5)	FROG-SS-220 (0.0-2.0)	FROG-SS-220 (4.0-5.0)	FROG-SS-DUP-203	FROG-SS-220 (5.5-6.0)	FROG-SS-221 (0.0-2.0)	FROG-SS-221 (4.0-5.0)
Metals																							
aluminum	7429-90-5	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
antimony	7440-36-0	27,000	27,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
arsenic	7440-38-2	29,000	29,000	**9.05**	**2.86**	**9.05**	**19.5**	**10.5**	**17.6**	**9.45**	**11.9**	**17**	**11.8**	**9.76**	**6.84**	**7.25**	**17.2**	**8.94**	**5.76**	4.21J	**11.4**	**6.93**	**25.3**
barium	7440-39-3	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
beryllium	7440-41-7	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cadmium	7440-43-9	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
calcium	7440-70-2	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, total	7440-47-3	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, trivalent	16065-83-1	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, hexavalent	18540-29-9	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cobalt	7440-48-4	45,000	130,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
copper	7440-50-8	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
iron	7439-89-6	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
lead	7439-92-1	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
magnesium	7439-95-4	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
manganese	7439-96-5	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
mercury	7439-97-6	10,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
nickel	7440-02-0	190,000	190,000	NA	NA	**165**	**97.9**	**18.6**	**40.3**	NA	NA	NA	NA	NA	NA	NA	NA	**493**	**599**	**531**	**18.7**	NA	NA
potassium	7440-09-7	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
selenium	7782-49-2	26,000	26,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
silver	7440-22-4	84,000	84,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sodium	7440-23-5	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
thallium	7440-28-0	14,000	14,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
vanadium	7440-62-2	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
zinc	7440-66-6	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Free Cyanide																							
cyanide, free	57-12-5	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix D4(a): Nonuse Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results - Inorganics

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Nonuse Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Nonuse Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-221 (9.0-10.0)	FROG-SS-221 (14.0-15.0)	FROG-SS-222 (0.0-2.0)	FROG-SS-222 (4.0-4.5)	FROG-SS-222 (9.0-10.0)	FROG-SS-222 (10.5-11.5)	FROG-SS-223 (0.0-2.0)	FROG-SS-223 (4.0-5.0)	FROG-SS-223 (9.0-10.0)	FROG-SS-223 (10.5-11.5)	FROG-SS-224 (0.0-2.0)	FROG-SS-224 (4.5-5.0)	FROG-SS-224 (9.5-10.0)	FROG-SS-224 (14.5-15.0)	FROG-SS-225 (0.0-2.0)	FROG-SS-225 (4.5-5.0)	FROG-SS-225 (9.5-10.0)	FROG-SS-225 (14.5-15.0)	FROG-SS-301 (0.0-2.0)	FROG-SS-301 (9.0-9.5)
Metals																							
aluminum	7429-90-5	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
antimony	7440-36-0	27,000	27,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
arsenic	7440-38-2	29,000	29,000	**4.33**	**4.42**	**10.5**	**9.80**	**7.18**	**13.7**	**4.59**	**5.93**	**11.0**	**9.17**	**7.70**	**10.1**	**7.28**	**9.78**	**5.10**	**3.89**	**2.26**	**3.13**	**7.56**	**12.4**
barium	7440-39-3	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
beryllium	7440-41-7	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cadmium	7440-43-9	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
calcium	7440-70-2	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, total	7440-47-3	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, trivalent	16065-83-1	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, hexavalent	18540-29-9	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cobalt	7440-48-4	45,000	130,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
copper	7440-50-8	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
iron	7439-89-6	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
lead	7439-92-1	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
magnesium	7439-95-4	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
manganese	7439-96-5	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
mercury	7439-97-6	10,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
nickel	7440-02-0	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
potassium	7440-09-7	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
selenium	7782-49-2	26,000	26,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
silver	7440-22-4	84,000	84,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sodium	7440-23-5	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
thallium	7440-28-0	14,000	14,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
vanadium	7440-62-2	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
zinc	7440-66-6	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Free Cyanide																							
cyanide, free	57-12-5	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix D4(a): Nonuse Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results - Inorganics

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Nonuse Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Nonuse Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-302 (0.0-2.0)	FROG-SS-DUP-301	FROG-SS-302 (6.5-7.0)	FROG-SS-303 (0.0-2.0)	FROG-SS-303 (4.5-5.0)	FROG-SS-304 (0.0-2.0)	FROG-SS-304 (14.5-15.0)	FROG-SS-305 (0.0-2.0)	FROG-SS-305 (7.0-7.5)	FROG-SS-306 (0.0-2.0)	FROG-SS-306 (3.0-3.5)	FROG-SS-307 (0.0-2.0)	FROG-SS-307 (8.0-8.5)	FROG-SS-308 (0.0-2.0)	FROG-SS-308 (6.5-7.0)	FROG-SS-309 (0.0-2.0)	FROG-SS-309 (4.0-4.5)	FROG-SS-310 (0.0-2.0)	FROG-SS-310 (4.5-5.0)
Metals																						
aluminum	7429-90-5	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
antimony	7440-36-0	27,000	27,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
arsenic	7440-38-2	29,000	29,000	**8.07**	**5.83**	**8.81**	**9.63**	**11.9**	**9.72**	**24.3**	**9.07**	**10.7**	**9.72**	**8.81**	**10.1**	**13.1**	**8.97**	**10.9**	**9.57**	**5.78**	**5.36**	**4.76**
barium	7440-39-3	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
beryllium	7440-41-7	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cadmium	7440-43-9	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
calcium	7440-70-2	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, total	7440-47-3	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, trivalent	16065-83-1	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chromium, hexavalent	18540-29-9	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cobalt	7440-48-4	45,000	130,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
copper	7440-50-8	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
iron	7439-89-6	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
lead	7439-92-1	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
magnesium	7439-95-4	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
manganese	7439-96-5	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
mercury	7439-97-6	10,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
nickel	7440-02-0	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
potassium	7440-09-7	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
selenium	7782-49-2	26,000	26,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
silver	7440-22-4	84,000	84,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sodium	7440-23-5	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
thallium	7440-28-0	14,000	14,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
vanadium	7440-62-2	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
zinc	7440-66-6	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Free Cyanide																						
cyanide, free	57-12-5	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix D4(b): Nonuse Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results - Volatile Organic Compounds

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Nonuse Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Nonuse Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-101 (0-2)	FROG-SS-101 (3-5)	FROG-SS-102 (0-2)	FROG-SS-102 (19-21)	FROG-SS-103 (0-2)	FROG-SS-103 (28-30)	FROG-SS-104 (0-2)	FROG-SS-104 (10-11.5)	FROG-SS-105 (1-3)	FROG-SS-105 (13-15)	FROG-SS-108 (1-3)	FROG-SS-108 (5.5-7.5)	FROG-SS-DUP-101	FROG-SS-109 (2.5-4.5)	FROG-SS-109 (8-10)	FROG-SS-110 (1.5-3.5)	FROG-SS-110 (5-7)	FROG-SS-111 (0-2)	FROG-SS-111 (10-11)	FROG-SS-112 (0-2)	FROG-SS-112 (7-9)	FROG-SS-115 (0-2)
Volatile Organic Compounds																									
dichlorodifluoromethane	75-71-8	10,000	10,000	<0.011	<0.011	<0.0095	<0.010	<0.013	<0.014	<0.012	<0.010	<0.011	<0.013	<0.012	<0.013	<0.014	<0.010	<0.011	<0.0099	<0.0079	<0.010	<0.012	<0.010	<0.010	<0.013
chloromethane	74-87-3	300	300	<0.0044	<0.0044	<0.0038	<0.0042	<0.0051	<0.0056	<0.0046	<0.0041	<0.0044	<0.0053	<0.0048	<0.0054	<0.0054	<0.0042	<0.0044	<0.004	<0.0032	<0.0041	<0.0050	<0.0040	<0.0041	<0.0053
vinyl chloride	75-01-4	2	2	<0.0011	<0.0011	<0.00095	<0.0010	<0.0013	<0.0014	<0.0012	<0.0010	<0.0011	<0.0013	<0.0012	<0.0013	<0.0014	<0.001	<0.0011	<0.00099	<0.00079	<0.0010	<0.0012	<0.0010	<0.0010	<0.0013
bromomethane	74-83-9	100	100	<0.0022	<0.0022	<0.0019	<0.0021	<0.0026	<0.0028	<0.0023	<0.0021	<0.0022	<0.0026	<0.0024	<0.0027	<0.0027	<0.0021	<0.0022	<0.0020	<0.0016	<0.002	<0.0025	<0.0020	<0.0020	<0.0027
chloroethane	75-00-3	10,000	10,000	<0.0022	<0.0022	<0.0019	<0.0021	<0.0026	<0.0028	<0.0023	<0.0021	<0.0022	<0.0026	<0.0024	<0.0027	<0.0027	<0.0021	<0.0022	<0.0020	<0.0016	<0.0020	<0.0025	<0.0020	<0.0020	<0.0027
trichlorofluoromethane	75-69-4	10,000	10,000	<0.0044	<0.0044	<0.0038	<0.0042	<0.0051	<0.0056	<0.0046	<0.0041	<0.0044	<0.0053	<0.0048	<0.0054	<0.0054	<0.0042	<0.0044	<0.0040	<0.0032	<0.0041	<0.005	<0.0040	<0.0041	<0.0053
1,1-dichloroethene	75-35-4	7	7	<0.0011	<0.0011	<0.00095	<0.0010	<0.0013	<0.0014	<0.0012	<0.0010	<0.0011	<0.0013	<0.0012	<0.0013	<0.0014	<0.0010	<0.0011	<0.00099	<0.00079	<0.0010	<0.0012	<0.0010	<0.0010	<0.0013
carbon disulfide	75-15-0	150	620	<0.011	<0.011	<0.0095	<0.010	<0.013	<0.014	<0.012	<0.010	<0.011	<0.013	<0.012	<0.013	<0.014	<0.010	<0.011	<0.0099	<0.0079	<0.010	<0.012	<0.010	<0.010	<0.013
1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	10,000	10,000	<0.0044	<0.0044	<0.0038	<0.0042	<0.0051	<0.0056	<0.0046	<0.0041	<0.0044	<0.0053	<0.0048	<0.0054	<0.0054	<0.0042	<0.0044	<0.0040	<0.0032	<0.0041	<0.0050	<0.0040	<0.0041	<0.0053
methylene chloride	75-09-2	50	50	<0.0056	<0.0055	<0.0048	<0.0053	<0.0064	<0.007	<0.0058	<0.0052	<0.0054	<0.0066	<0.0061	<0.0067	<0.0068	<0.0052	<0.0056	<0.0050	<0.0040	<0.0051	<0.0063	<0.0050	<0.0051	<0.0067
acetone	67-64-1	10,000	10,000	<0.028	<0.027	**0.056**	<0.026	<0.032	0.023J	<0.029	<0.026	**0.064**	0.021J	<0.030	<0.033	<0.034	<0.026	<0.028	<0.025	**0.026**	<0.026	<0.031	<0.025	<0.026	<0.033
trans-1,2-dichloroethene	156-60-5	100	100	<0.0017	<0.0016	<0.0014	<0.0016	<0.0019	<0.0021	<0.0017	<0.0016	<0.0016	<0.0020	<0.0018	<0.0020	<0.002	<0.0016	<0.0017	<0.0015	<0.0012	<0.0015	<0.0019	<0.0015	<0.0015	<0.0020
methyl acetate	79-20-9	3,500	9,700	<0.0044	<0.0044	<0.0038	<0.0042	<0.0051	<0.0056	<0.0046	<0.0041	**0.0074**	<0.0053	<0.0048	<0.0054	0.0018J	<0.0042	<0.0044	<0.0040	<0.0032	<0.0041	<0.0050	<0.0040	<0.0041	<0.0053
methyl tertiary butyl ether (MTBE)	1634-04-4	20	20	<0.0022	<0.0022	<0.0019	<0.0021	<0.0026	<0.0028	<0.0023	<0.0021	<0.0022	<0.0026	<0.0024	<0.0027	<0.0027	<0.0021	<0.0022	<0.0020	<0.0016	<0.0020	<0.0025	<0.0020	<0.0020	<0.0027
1,1-dichloroethane	75-34-3	31	160	<0.0011	<0.0011	<0.00095	<0.001	<0.0013	<0.0014	<0.0012	<0.001	<0.0011	<0.0013	<0.0012	<0.0013	<0.0014	<0.0010	<0.0011	0.00014J	0.00053J	<0.0010	<0.0012	<0.0010	<0.0010	<0.0013
cis-1,2-dichloroethene	156-59-2	70	70	<0.0011	<0.0011	<0.00095	<0.001	<0.0013	<0.0014	<0.0012	<0.001	<0.0011	<0.0013	<0.0012	<0.0013	<0.0014	<0.0010	<0.0011	<0.00099	<0.00079	<0.0010	<0.0012	<0.0010	<0.0010	<0.0013
1,2-dichloroethene, total	540-59-0	-	-	<0.0011	<0.0011	<0.00095	<0.001	<0.0013	<0.0014	<0.0012	<0.001	<0.0011	<0.0013	<0.0012	<0.0013	<0.0014	<0.0010	<0.0011	<0.00099	<0.00079	<0.0010	<0.0012	<0.0010	<0.0010	<0.0013
cyclohexane	110-82-7	1,700	6,900	<0.011	<0.011	<0.0095	<0.010	<0.013	<0.014	<0.012	<0.010	0.0012J	<0.013	<0.012	<0.013	<0.014	<0.010	<0.011	<0.0099	<0.0079	<0.010	<0.012	<0.010	<0.010	<0.013
bromochloromethane	74-97-5	9	9	<0.0022	<0.0022	<0.0019	<0.0021	<0.0026	<0.0028	<0.0023	<0.0021	<0.0022	<0.0026	<0.0024	<0.0027	<0.0027	<0.0021	<0.0022	<0.0020	<0.0016	<0.0020	<0.0025	<0.0020	<0.0020	<0.0027
chloroform	67-66-3	80	80	0.00018J	0.00017J	0.00016J	0.00040J	0.00031JB	<0.0021	0.00025JB	0.00023JB	0.00024JB	0.00026JB	0.00022JB	0.00030JB	0.00030JB	0.00020JB	0.00019JB	0.00018JB	0.00015JB	<0.0015	<0.0019	<0.0015	<0.0015	<0.0020
carbon tetrachloride	56-23-5	5	5	<0.0011	<0.0011	<0.00095	<0.001	<0.0013	<0.0014	<0.0012	<0.001	<0.0011	<0.0013	<0.0012	<0.0013	<0.0014	<0.0010	<0.0011	<0.00099	<0.00079	<0.0010	<0.0012	<0.0010	<0.0010	<0.0013
1,1,1-trichloroethane	71-55-6	200	200	<0.00056	<0.00055	<0.00048	<0.00053	<0.00064	<0.0007	<0.00058	<0.00052	<0.00054	<0.00066	<0.00061	<0.00067	<0.00068	<0.00052	<0.00056	<0.0005	<0.00040	<0.00051	<0.00063	<0.00050	<0.00051	<0.00067
2-butanone	78-93-3	10,000	10,000	<0.011	<0.011	<0.0095	<0.010	<0.013	0.0056J	<0.012	<0.010	**0.020**	<0.013	<0.012	<0.013	<0.014	<0.010	<0.011	<0.0099	0.0064J	<0.010	<0.012	<0.010	<0.010	<0.013
benzene	71-43-2	50	50	<0.00056	<0.00055	<0.00048	<0.00053	<0.00064	0.00061J	<0.00058	<0.00052	**0.0024**	0.00027J	<0.00061	<0.00067	<0.00068	<0.00052	<0.00056	**0.0011**	**0.0035**	<0.00051	<0.00063	<0.00050	<0.00051	<0.00067
1,2-dichloroethane	107-06-02	5	5	<0.0011	<0.0011	<0.00095	<0.001	<0.0013	<0.0014	<0.0012	<0.001	<0.0011	<0.0013	<0.0012	<0.0013	<0.0014	<0.0010	<0.0011	<0.00099	<0.00079	<0.0010	<0.0012	<0.0010	<0.0010	<0.0013
methyl cyclohexane	108-87-2	-	-	<0.0044	<0.0044	<0.0038	<0.0042	<0.0051	<0.0056	<0.0046	<0.0041	**0.0048**	0.0024J	<0.0048	<0.0054	<0.0054	<0.0042	<0.0044	<0.0040	0.0013J	<0.0041	<0.0050	<0.0040	<0.0041	<0.0053
trichloroethene	79-01-6	5	5	<0.00056	<0.00055	<0.00048	<0.00053	<0.00064	<0.0007	<0.00058	<0.00052	<0.00054	<0.00066	<0.00061	<0.00067	<0.00068	<0.00052	<0.00056	<0.00050	<0.00040	<0.00051	<0.00063	<0.00050	<0.00051	<0.00067
1,2-dichloropropane	78-87-5	5	5	<0.0011	<0.0011	<0.00095	<0.001	<0.0013	<0.0014	<0.0012	<0.001	<0.0011	<0.0013	<0.0012	<0.0013	<0.0014	<0.0010	<0.0011	<0.00099	<0.00079	<0.0010	<0.0012	<0.0010	<0.0010	<0.0013
bromodichloromethane	75-27-4	8	8	<0.00056	<0.00055	<0.00048	<0.00053	<0.00064	<0.0007	<0.00058	<0.00052	<0.00054	<0.00066	<0.00061	<0.00067	<0.00068	<0.00052	<0.00056	<0.0005	<0.0004	<0.00051	<0.00063	<0.00050	<0.00051	<0.00067
1,4-dioxane	123-91-1	7	27	<0.089	<0.087	<0.076	<0.084	<0.10	<0.11	<0.092	<0.083	<0.087	<0.10	<0.097	<0.11	<0.11	<0.084	<0.089	<0.079	<0.063	<0.082	<0.10	<0.080	<0.082	<0.11
cis-1,3-dichloropropene	10061-01-5	-	-	<0.00056	<0.00055	<0.00048	<0.00053	<0.00064	<0.0007	<0.00058	<0.00052	<0.00054	<0.00066	<0.00061	<0.00067	<0.00068	<0.00052	<0.00056	<0.0005	<0.00040	<0.00051	<0.00063	<0.00050	<0.00051	<0.00067
toluene	108-88-3	10,000	10,000	<0.0011	<0.0011	<0.00095	<0.001	<0.0013	<0.0014	<0.0012	<0.0010	**0.0022**	<0.0013	<0.0012	<0.0013	<0.0014	<0.0010	<0.0011	0.00071J	**0.0014**	<0.0010	<0.0012	<0.0010	<0.0010	<0.0013
4-methyl-2-pentanone	108-10-1	10,000	10,000	<0.011	<0.011	<0.0095	<0.010	<0.013	<0.014	<0.012	<0.010	<0.011	<0.013	<0.012	<0.013	<0.014	<0.010	<0.011	<0.0099	<0.0079	<0.010	<0.012	<0.010	<0.010	<0.013
tetrachloroethene	127-18-4	5	5	<0.00056	<0.00055	<0.00048	<0.00053	<0.00064	0.00032J	<0.00058	<0.00052	<0.00054	<0.00066	<0.00061	<0.00067	<0.00068	<0.00052	<0.00056	<0.00050	<0.00040	<0.00051	<0.00063	<0.00050	<0.00051	<0.00067
trans-1,3-dichloropropene	10061-02-6	-	-	<0.0011	<0.0011	<0.00095	<0.0010	<0.0013	<0.0014	<0.0012	<0.0010	<0.0011	<0.0013	<0.0012	<0.0013	<0.0014	<0.0010	<0.0011	<0.00099	<0.00079	<0.0010	<0.0012	<0.0010	<0.0010	<0.0013
1,3-dichloropropene, total	542-75-6	65	270	<0.00056	<0.00055	<0.00048	<0.00053	<0.00064	<0.0007	<0.00058	<0.00052	<0.00054	<0.00066	<0.00061	<0.00067	<0.00068	<0.00052	<0.00056	<0.0005	<0.0004	<0.00051	<0.00063	<0.00050	<0.00051	<0.00067
1,1,2-trichloroethane	79-00-5	5	5	<0.0011	<0.0011	<0.00095	<0.0010	<0.0013	<0.0014	<0.0012	<0.0010	<0.0011	<0.0013	<0.0012	<0.0013	<0.0014	<0.0010	<0.0011	<0.00099	<0.00079	<0.0010	<0.0012	<0.0010	<0.0010	<0.0013
dibromochloromethane	124-48-1	800	800	<0.0011	<0.0011	<0.00095	<0.0010	<0.0013	<0.0014	<0.0012	<0.0010	<0.0011	<0.0013	<0.0012	<0.0013	<0.0014	<0.0010	<0.0011	<0.00099	<0.00079	<0.0010	<0.0012	<0.0010	<0.0010	<0.0013
1,2-dibromoethane	106-93-4	0.5	0.5	<0.00056	<0.00055	<0.00048	<0.00053	<0.00064	<0.0007	<0.00058	<0.00052	<0.00054	<0.00066	<0.00061	<0.00067	<0.00068	<0.00052	<0.00056	<0.00050	<0.00040	<0.00051	<0.00063	<0.00050	<0.00051	<0.00067
2-hexanone	591-78-6	6.3	26	<0.011	<0.011	<0.0095	<0.010	<0.013	<0.014	<0.012	<0.010	<0.011	<0.013	<0.012	<0.013	<0.014	<0.010	<0.011	<0.0099	<0.0079	<0.010	<0.012	<0.010	<0.010	<0.013
chlorobenzene	108-90-7	1,000	1,000	<0.00056	<0.00055	<0.00048	<0.00053	<0.00064	<0.0007	<0.00058	<0.00052	<0.00054	<0.00066	<0.00061	<0.00067	<0.00068	<0.00052	<0.00056	<0.00050	<0.0004	<0.00051	<0.00063	<0.00050	<0.00051	<0.00067
ethylbenzene	100-41-4	7,000	7,000	<0.0011	<0.0011	<0.00095	<0.001	<0.0013	0.00057J	<0.0012	<0.0010	**0.0017**	<0.0013	<0.0012	<0.0013	<0.0014	<0.0010	<0.0011	0.00024J	0.00042J	<0.0010	<0.0012	<0.0010	<0.0010	<0.0013
p/m-xylene	108-38-3/106-42-3	-	-	<0.0022	<0.0022	<0.0019	<0.0021	<0.0026	0.0010J	<0.0023	<0.0021	**0.0046**	<0.0026	<0.0024	<0.0027	<0.0027	<0.0021	<0.0022	<0.0020	0.00044J	<0.0020	<0.0025	<0.0020	<0.0020	<0.0027
o-xylene	95-47-6	-	-	<0.0011	<0.0011	<0.00095	<0.001	<0.0013	0.00047J	<0.0012	<0.0010	**0.0011**	<0.0013	<0.0012	<0.0013	<0.0014	<0.0010	<0.0011	<0.00099	0.00027J	<0.0010	<0.0012	<0.0010	<0.0010	<0.0013
xylenes, total	1330-20-7	10,000	10,000	<0.0011	<0.0011	<0.00095	<0.001	<0.0013	0.0015J	<0.0012	<0.0010	**0.0057**	<0.0013	<0.0012	<0.0013	<0.0014	<0.0010	<0.0011	<0.00099	0.00071J	<0.0010	<0.0012	<0.0010	<0.0010	<0.0013
styrene	100-42-5	2,400	2,400	<0.0011	<0.0011	<0.00095	<0.001	<0.0013	<0.0014	<0.0012	<0.0010	<0.0011	<0.0013	<0.0012	<0.0013	<0.0014	<0.0010	<0.0011	<0.00099	<0.00079	<0.0010	<0.0012	<0.0010	<0.0010	<0.0013

Appendix D4(b): Nonuse Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results - Volatile Organic Compounds

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations		FROG-SS-101 (0-2)	FROG-SS-101 (3-5)	FROG-SS-102 (0-2)	FROG-SS-102 (19-21)	FROG-SS-103 (0-2)	FROG-SS-103 (28-30)	FROG-SS-104 (0-2)	FROG-SS-104 (10-11.5)	FROG-SS-105 (1-3)	FROG-SS-105 (13-15)	FROG-SS-108 (1-3)	FROG-SS-108 (5.5-7.5)	FROG-SS-DUP-101	FROG-SS-109 (2.5-4.5)	FROG-SS-109 (8-10)	FROG-SS-110 (1.5-3.5)	FROG-SS-110 (5-7)	FROG-SS-111 (0-2)	FROG-SS-111 (10-11)	FROG-SS-112 (0-2)	FROG-SS-112 (7-9)	FROG-SS-115 (0-2)
		Nonuse Aquifer Soil-to-Groundwater Residential	Nonuse Aquifer Soil-to-Groundwater Non-Residential																						
bromoform	75-25-2	800	800	<0.0044	<0.0044	<0.0038	<0.0042	<0.0051	<0.0056	<0.0046	<0.0041	<0.0044	<0.0053	<0.0048	<0.0054	<0.0054	<0.0042	<0.0044	<0.0040	<0.0032	<0.0041	<0.0050	<0.0040	<0.0041	<0.0053
isopropylbenzene	98-82-8	10,000	10,000	<0.0011	<0.0011	<0.00095	<0.0010	<0.0013	0.00042J	<0.0012	<0.0010	0.00044J	0.00055J	<0.0012	<0.0013	<0.0014	<0.0010	<0.0011	<0.00099	<0.00079	<0.0010	<0.0012	<0.0010	<0.0010	<0.0013
1,1,2,2-tetrachloroethane	79-34-5	8	43	<0.00056	<0.00055	<0.00048	<0.00053	<0.00064	<0.0007	<0.00058	<0.00052	<0.00054	<0.00066	<0.00061	<0.00067	<0.00068	<0.00052	<0.00056	<0.00050	<0.0004	<0.00051	<0.00063	<0.00050	<0.00051	<0.00067
1,3-dichlorobenzene	541-73-1	6,100	6,100	<0.0022	<0.0022	<0.0019	<0.0021	<0.0026	<0.0028	<0.0023	<0.0021	<0.0022	<0.0026	<0.0024	<0.0027	<0.0027	<0.0021	<0.0022	<0.0020	<0.0016	<0.0020	<0.0025	<0.0020	<0.0020	<0.0027
1,4-dichlorobenzene	106-46-7	1,000	1,000	<0.0022	<0.0022	<0.0019	<0.0021	<0.0026	<0.0028	<0.0023	<0.0021	<0.0022	<0.0026	<0.0024	<0.0027	<0.0027	<0.0021	<0.0022	<0.0020	<0.0016	<0.0020	<0.0025	<0.0020	<0.0020	<0.0027
1,2-dichlorobenzene	95-50-1	6,000	6,000	<0.0022	<0.0022	<0.0019	<0.0021	<0.0026	<0.0028	<0.0023	<0.0021	<0.0022	<0.0026	<0.0024	<0.0027	<0.0027	<0.0021	<0.0022	<0.0020	<0.0016	<0.0020	<0.0025	<0.0020	<0.0020	<0.0027
1,2-dibromo-3-chloropropane	96-12-8	2	2	<0.0033	<0.0033	<0.0028	<0.0032	<0.0038	<0.0042	<0.0034	<0.0031	<0.0033	<0.0040	<0.0036	<0.0040	<0.0041	<0.0031	<0.0033	<0.0030	<0.0024	<0.0031	<0.0038	<0.0030	<0.0031	<0.0040
1,2,4-trichlorobenzene	120-82-1	2,700	2,700	<0.0022	<0.0022	<0.0019	<0.0021	<0.0026	<0.0028	<0.0023	<0.0021	<0.0022	<0.0026	<0.0024	<0.0027	<0.0027	<0.0021	<0.0022	<0.0020	<0.0016	<0.0020	<0.0025	<0.0020	<0.0020	<0.0027
1,2,3-trichlorobenzene	87-61-6	-	-	<0.0022	<0.0022	<0.0019	<0.0021	<0.0026	<0.0028	<0.0023	<0.0021	<0.0022	<0.0026	<0.0024	<0.0027	<0.0027	<0.0021	<0.0022	<0.0020	<0.0016	<0.0020	<0.0025	<0.0020	<0.0020	<0.0027

Appendix D4(b): Nonuse Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results - Volatile Organic Compounds

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Nonuse Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Nonuse Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-115 (6.5-8.5)	FROG-SS-116 (0-2)	FROG-SS-116 (18.5-20.5)	FROG-SS-117 (0-2)	FROG-SS-DUP-103	FROG-SS-117 (11-13)	FROG-SS-118 (0-2)	FROG-SS-118 (10-12)	FROG-SS-DUP-102	FROG-SS-119 (0-0.5)	FROG-SS-119 (0.5-1)	FROG-SS-120 (0-2)	FROG-SS-120 (2-3.5)	FROG-SS-121 (0-2)	FROG-SS-121 (20-21.5)	FROG-SS-122 (1.5-3.5)	FROG-SS-122 (30-32)	FROG-SS-123 (1-3)	FROG-SS-123 (17-19)	FROG-SS-DUP-104	FROG-SS-127 (FLOOR)
Volatile Organic Compounds																								
dichlorodifluoromethane	75-71-8	10,000	10,000	<0.014	<0.0097	<0.011	<0.011	<0.010	<0.0097	<0.011	<0.014	<0.011	<0.0080	<0.0097	<0.010	<0.0095	<0.010	<0.012	<0.010	<0.012	<0.0097	<0.011	<0.010	<0.0064
chloromethane	74-87-3	300	300	<0.0057	<0.0039	<0.0042	<0.0043	<0.0041	<0.0039	<0.0044	<0.0058	<0.0046	<0.0032	<0.0039	<0.0042	<0.0038	<0.0041	<0.005	<0.0042	<0.0049	<0.0039	<0.0043	<0.0041	<0.0026
vinyl chloride	75-01-4	2	2	<0.0014	<0.00097	<0.0011	<0.0011	<0.0010	<0.00097	<0.0011	<0.0014	<0.0011	<0.0008	<0.00097	<0.0010	<0.00095	<0.0010	<0.0012	<0.0010	<0.0012	<0.00097	<0.0011	<0.0010	<0.00064
bromomethane	74-83-9	100	100	<0.0028	<0.0019	<0.0021	<0.0021	<0.0020	<0.0019	<0.0022	<0.0029	<0.0023	<0.0016	<0.0019	<0.0021	<0.0019	<0.0021	<0.0025	<0.0021	<0.0024	<0.0019	<0.0022	<0.0020	<0.0013
chloroethane	75-00-3	10,000	10,000	<0.0028	<0.0019	<0.0021	<0.0021	<0.0020	<0.0019	<0.0022	<0.0029	<0.0023	<0.0016	<0.0019	<0.0021	<0.0019	<0.0021	<0.0025	<0.0021	<0.0024	<0.0019	<0.0022	<0.0020	<0.0013
trichlorofluoromethane	75-69-4	10,000	10,000	<0.0057	<0.0039	<0.0042	<0.0043	<0.0041	<0.0039	<0.0044	<0.0058	<0.0046	<0.0032	<0.0039	<0.0042	<0.0038	<0.0041	<0.005	<0.0042	<0.0049	<0.0039	<0.0043	<0.0041	<0.0026
1,1-dichloroethene	75-35-4	7	7	<0.0014	<0.00097	<0.0011	<0.0011	<0.0010	<0.00097	<0.0011	<0.0014	<0.0011	<0.0008	<0.00097	<0.0010	<0.00095	<0.0010	<0.0012	<0.0010	<0.0012	<0.00097	<0.0011	<0.0010	<0.00064
carbon disulfide	75-15-0	150	620	<0.014	<0.0097	<0.011	<0.011	<0.010	<0.0097	<0.011	<0.014	<0.011	<0.008	<0.0097	<0.010	<0.0095	<0.010	<0.012	<0.010	<0.012	<0.0097	<0.011	<0.010	<0.0064
1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	10,000	10,000	<0.0057	<0.0039	<0.0042	<0.0043	<0.0041	<0.0039	<0.0044	<0.0058	<0.0046	<0.0032	<0.0039	<0.0042	<0.0038	<0.0041	<0.005	<0.0042	<0.0049	<0.0039	<0.0043	<0.0041	<0.0026
methylene chloride	75-09-2	50	50	<0.0071	<0.0049	<0.0053	<0.0053	<0.0051	<0.0048	<0.0055	<0.0072	<0.0057	<0.0040	<0.0048	<0.0052	<0.0047	<0.0052	<0.0063	<0.0053	<0.0061	<0.0048	<0.0054	<0.0051	<0.0032
acetone	67-64-1	10,000	10,000	<0.036	<0.024	<0.027	<0.027	<0.025	<0.024	<0.028	<0.036	<0.028	<0.020	0.00077J	<0.026	0.022J	<0.026	<0.031	0.024J	<0.031	<0.024	0.017J	<0.026	**0.030**
trans-1,2-dichloroethene	156-60-5	100	100	<0.0021	<0.0015	<0.0016	<0.0016	<0.0015	<0.0014	<0.0017	<0.0022	<0.0017	<0.0012	<0.0014	<0.0016	<0.0014	<0.0015	<0.0019	<0.0016	<0.0018	<0.0014	<0.0016	<0.0015	<0.00096
methyl acetate	79-20-9	3,500	9,700	<0.0057	<0.0039	<0.0042	<0.0043	<0.0041	<0.0039	<0.0044	<0.0058	<0.0046	<0.0032	<0.0039	<0.0042	<0.0038	<0.0041	<0.005	<0.0042	<0.0049	<0.0039	<0.0043	<0.0041	<0.0026
methyl tertiary butyl ether (MTBE)	1634-04-4	20	20	<0.0028	<0.0019	<0.0021	<0.0021	<0.0020	<0.0019	<0.0022	<0.0029	<0.0023	<0.0016	<0.0019	<0.0021	<0.0019	<0.0021	<0.0025	<0.0021	<0.0024	<0.0019	<0.0022	<0.0020	<0.0013
1,1-dichloroethane	75-34-3	31	160	<0.0014	<0.00097	<0.0011	<0.0011	<0.0010	<0.00097	<0.0011	<0.0014	<0.0011	<0.00080	<0.00097	<0.0010	<0.00095	<0.0010	<0.0012	<0.0010	<0.0012	<0.00097	<0.0011	<0.0010	<0.00064
cis-1,2-dichloroethene	156-59-2	70	70	<0.0014	<0.00097	<0.0011	<0.0011	<0.0010	<0.00097	<0.0011	<0.0014	<0.0011	<0.00080	<0.00097	<0.0010	<0.00095	<0.0010	<0.0012	<0.0010	<0.0012	<0.00097	<0.0011	<0.0010	<0.00064
1,2-dichloroethene, total	540-59-0	-	-	<0.0014	<0.00097	<0.0011	<0.0011	<0.0010	<0.00097	<0.0011	<0.0014	<0.0011	<0.00080	<0.00097	<0.0010	<0.00095	<0.0010	<0.0012	<0.0010	<0.0012	<0.00097	<0.0011	<0.0010	<0.00064
cyclohexane	110-82-7	1,700	6,900	<0.014	<0.0097	<0.011	<0.011	<0.010	<0.0097	<0.011	<0.014	<0.011	<0.0080	<0.0097	<0.010	<0.0095	<0.010	<0.012	<0.010	<0.012	<0.0097	<0.011	0.00073J	<0.0064
bromochloromethane	74-97-5	9	9	<0.0028	<0.0019	<0.0021	<0.0021	<0.0020	<0.0019	<0.0022	<0.0029	<0.0023	<0.0016	<0.0019	<0.0021	<0.0019	<0.0021	<0.0025	<0.0021	<0.0024	<0.0019	<0.0022	<0.0020	<0.0013
chloroform	67-66-3	80	80	0.00026J	0.00017J	<0.0016	0.00021J	0.00023J	0.00026J	<0.0017	<0.0022	0.00021J	0.00023J	<0.0014	<0.0016	<0.0014	<0.0015	<0.0019	0.00030J	0.00034J	0.00027J	0.00030J	0.00026J	0.00014J
carbon tetrachloride	56-23-5	5	5	<0.0014	<0.00097	<0.0011	<0.0011	<0.0010	<0.00097	<0.0011	<0.0014	<0.0011	<0.00080	<0.00097	<0.001	<0.00095	<0.0010	<0.0012	<0.0010	<0.0012	<0.00097	<0.0011	<0.0010	<0.00064
1,1,1-trichloroethane	71-55-6	200	200	<0.00071	<0.00049	<0.00053	<0.00053	<0.00051	<0.00048	<0.00055	<0.00072	<0.00057	<0.00040	<0.00048	<0.00052	<0.00047	<0.00052	<0.00063	<0.00053	<0.00061	<0.00048	<0.00054	<0.00051	<0.00032
2-butanone	78-93-3	10,000	10,000	<0.014	<0.0097	<0.011	<0.011	<0.010	<0.0097	<0.011	<0.014	<0.011	<0.0080	<0.0097	<0.010	<0.0095	<0.010	<0.012	0.0076J	<0.012	<0.0097	<0.011	<0.010	**0.014**
benzene	71-43-2	50	50	<0.00071	0.00016J	0.00020J	0.00029J	<0.00051	<0.00048	<0.00055	<0.00072	<0.00057	<0.00040	<0.00048	<0.00052	0.00025J	<0.00052	<0.00063	<0.00053	<0.00061	<0.00048	<0.00054	<0.00051	0.00012J
1,2-dichloroethane	107-06-02	5	5	<0.0014	<0.00097	<0.0011	<0.0011	<0.0010	<0.00097	<0.0011	<0.0014	<0.0011	<0.00080	<0.00097	<0.0010	<0.00095	<0.0010	<0.0012	<0.0010	<0.0012	<0.00097	<0.0011	<0.0010	<0.00064
methyl cyclohexane	108-87-2	-	-	<0.0057	<0.0039	<0.0042	<0.0043	<0.0041	<0.0039	<0.0044	<0.0058	<0.0046	<0.0032	<0.0039	<0.0042	<0.0038	<0.0041	<0.005	<0.0042	<0.0049	<0.0039	<0.0043	**0.0047**	<0.0026
trichloroethene	79-01-6	5	5	<0.00071	<0.00049	<0.00053	<0.00053	<0.00051	<0.00048	<0.00055	<0.00072	<0.00057	<0.00040	<0.00048	<0.00052	<0.00047	<0.00052	<0.00063	<0.00053	<0.00061	<0.00048	<0.00054	<0.00051	<0.00032
1,2-dichloropropane	78-87-5	5	5	<0.0014	<0.00097	<0.0011	<0.0011	<0.0010	<0.00097	<0.0011	<0.0014	<0.0011	<0.00080	<0.00097	<0.0010	<0.00095	<0.0010	<0.0012	<0.0010	<0.0012	<0.00097	<0.0011	<0.0010	<0.00064
bromodichloromethane	75-27-4	8	8	<0.00071	<0.00049	<0.00053	<0.00053	<0.00051	<0.00048	<0.00055	<0.00072	<0.00057	<0.00040	<0.00048	<0.00052	<0.00047	<0.00052	<0.00063	<0.00053	<0.00061	<0.00048	<0.00054	<0.00051	<0.00032
1,4-dioxane	123-91-1	7	27	<0.11	<0.078	<0.085	<0.085	<0.081	<0.078	<0.089	<0.12	<0.091	<0.064	<0.077	<0.083	<0.076	<0.082	<0.10	<0.084	<0.098	<0.077	<0.087	<0.082	<0.051
cis-1,3-dichloropropene	10061-01-5	-	-	<0.00071	<0.00049	<0.00053	<0.00053	<0.00051	<0.00048	<0.00055	<0.00072	<0.00057	<0.00040	<0.00048	<0.00052	<0.00047	<0.00052	<0.00063	<0.00053	<0.00061	<0.00048	<0.00054	<0.00051	<0.00032
toluene	108-88-3	10,000	10,000	<0.0014	<0.00097	<0.0011	<0.0011	<0.0010	<0.00097	<0.0011	<0.0014	<0.0011	<0.00080	<0.00097	<0.0010	<0.00095	<0.0010	<0.0012	<0.0010	<0.0012	<0.00097	<0.0011	<0.0010	<0.00064
4-methyl-2-pentanone	108-10-1	10,000	10,000	<0.014	<0.0097	<0.011	<0.011	<0.010	<0.0097	<0.011	<0.014	<0.011	<0.0080	<0.0097	<0.010	<0.0095	<0.010	<0.012	<0.010	<0.012	<0.0097	<0.011	<0.010	0.0017J
tetrachloroethene	127-18-4	5	5	<0.00071	<0.00049	<0.00053	<0.00053	<0.00051	<0.00048	<0.00055	<0.00072	<0.00057	<0.00040	<0.00048	<0.00052	<0.00047	<0.00052	<0.00063	**0.0014**	<0.00061	<0.00048	<0.00054	<0.00051	<0.00032
trans-1,3-dichloropropene	10061-02-6	-	-	<0.0014	<0.00097	<0.0011	<0.0011	<0.0010	<0.00097	<0.0011	<0.0014	<0.0011	<0.00080	<0.00097	<0.0010	<0.00095	<0.0010	<0.0012	<0.0010	<0.0012	<0.00097	<0.0011	<0.0010	<0.00064
1,3-dichloropropene, total	542-75-6	65	270	<0.00071	<0.00049	<0.00053	<0.00053	<0.00051	<0.00048	<0.00055	<0.00072	<0.00057	<0.00040	<0.00048	<0.00052	<0.00047	<0.00052	<0.00063	<0.00053	<0.00061	<0.00048	<0.00054	<0.00051	<0.00032
1,1,2-trichloroethane	79-00-5	5	5	<0.0014	<0.00097	<0.0011	<0.0011	<0.0010	<0.00097	<0.0011	<0.0014	<0.0011	<0.00080	<0.00097	<0.0010	<0.00095	<0.0010	<0.0012	<0.0010	<0.0012	<0.00097	<0.0011	<0.0010	<0.00064
dibromochloromethane	124-48-1	800	800	<0.0014	<0.00097	<0.0011	<0.0011	<0.0010	<0.00097	<0.0011	<0.0014	<0.0011	<0.00080	<0.00097	<0.0010	<0.00095	<0.0010	<0.0012	<0.0010	<0.0012	<0.00097	<0.0011	<0.0010	<0.00064
1,2-dibromoethane	106-93-4	0.5	0.5	<0.00071	<0.00049	<0.00053	<0.00053	<0.00051	<0.00048	<0.00055	<0.00072	<0.00057	<0.00040	<0.00048	<0.00052	<0.00047	<0.00052	<0.00063	<0.00053	<0.00061	<0.00048	<0.00054	<0.00051	<0.00032
2-hexanone	591-78-6	6.3	26	<0.014	<0.0097	<0.011	<0.011	<0.010	<0.0097	<0.011	<0.014	<0.011	<0.0080	<0.0097	<0.010	<0.0095	<0.010	<0.012	<0.01	<0.012	<0.0097	<0.011	<0.010	<0.0064
chlorobenzene	108-90-7	1,000	1,000	<0.00071	<0.00049	<0.00053	<0.00053	<0.00051	<0.00048	<0.00055	<0.00072	<0.00057	<0.00040	<0.00048	<0.00052	<0.00047	<0.00052	<0.00063	<0.00053	<0.00061	<0.00048	<0.00054	<0.00051	<0.00032
ethylbenzene	100-41-4	7,000	7,000	<0.0014	<0.00097	<0.0011	<0.0011	<0.0010	<0.00097	<0.0011	<0.0014	<0.0011	<0.00080	<0.00097	<0.0010	0.00017J	<0.0010	<0.0012	<0.0010	<0.0012	<0.00097	<0.0011	<0.0010	<0.00064
p/m-xylene	108-38-3/106-42-3	-	-	<0.0028	<0.0019	<0.0021	<0.0021	<0.0020	<0.0019	<0.0022	<0.0029	<0.0023	<0.0016	<0.0019	<0.0021	<0.0019	<0.0021	<0.0025	<0.0021	<0.0024	<0.0019	<0.0022	<0.0020	<0.0013
o-xylene	95-47-6	-	-	<0.0014	<0.00097	<0.0011	<0.0011	<0.0010	<0.00097	<0.0011	<0.0014	<0.0011	<0.00080	<0.00097	<0.0010	<0.00095	<0.0010	<0.0012	<0.0010	<0.0012	<0.00097	<0.0011	<0.0010	<0.00064
xylenes, total	1330-20-7	10,000	10,000	<0.0014	<0.00097	<0.0011	<0.0011	<0.0010	<0.00097	<0.0011	<0.0014	<0.0011	<0.00080	<0.00097	<0.0010	<0.00095	<0.0010	<0.0012	<0.0010	<0.0012	<0.00097	<0.0011	<0.0010	<0.00064
styrene	100-42-5	2,400	2,400	<0.0014	<0.00097	<0.0011	<0.0011	<0.0010	<0.00097	<0.0011	<0.0014	<0.0011	<0.00080	<0.00097	<0.0010	<0.00095	<0.0010	<0.0012	<0.0010	<0.0012	<0.00097	<0.0011	<0.0010	<0.00064

Appendix D4(b): Nonuse Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results - Volatile Organic Compounds

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Nonuse Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Nonuse Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-115 (6.5-8.5)	FROG-SS-116 (0-2)	FROG-SS-116 (18.5-20.5)	FROG-SS-117 (0-2)	FROG-SS-DUP-103	FROG-SS-117 (11-13)	FROG-SS-118 (0-2)	FROG-SS-118 (10-12)	FROG-SS-DUP-102	FROG-SS-119 (0-0.5)	FROG-SS-119 (0.5-1)	FROG-SS-120 (0-2)	FROG-SS-120 (2-3.5)	FROG-SS-121 (0-2)	FROG-SS-121 (20-21.5)	FROG-SS-122 (1.5-3.5)	FROG-SS-122 (30-32)	FROG-SS-123 (1-3)	FROG-SS-123 (17-19)	FROG-SS-DUP-104	FROG-SS-127 (FLOOR)
bromoform	75-25-2	800	800	<0.0057	<0.0039	<0.0042	<0.0043	<0.0041	<0.0039	<0.0044	<0.0058	<0.0046	<0.0032	<0.0039	<0.0042	<0.0038	<0.0041	<0.0050	<0.0042	<0.0049	<0.0039	<0.0043	<0.0041	<0.0026
isopropylbenzene	98-82-8	10,000	10,000	<0.0014	<0.00097	<0.0011	<0.0011	<0.0010	<0.00097	<0.0011	<0.0014	<0.0011	<0.00080	<0.00097	<0.0010	<0.00095	<0.0010	<0.0012	<0.0010	<0.0012	<0.00097	<0.0011	**0.0025**	<0.00064
1,1,2,2-tetrachloroethane	79-34-5	8	43	<0.00071	<0.00049	<0.00053	<0.00053	<0.00051	<0.00048	<0.00055	<0.00072	<0.00057	<0.00040	<0.00048	<0.00052	<0.00047	<0.00052	<0.00063	<0.00053	<0.00061	<0.00048	<0.00054	<0.00051	<0.00032
1,3-dichlorobenzene	541-73-1	6,100	6,100	<0.0028	<0.0019	<0.0021	<0.0021	<0.0020	<0.0019	<0.0022	<0.0029	<0.0023	<0.0016	<0.0019	<0.0021	<0.0019	<0.0021	<0.0025	<0.0021	<0.0024	<0.0019	<0.0022	<0.0020	<0.0013
1,4-dichlorobenzene	106-46-7	1,000	1,000	<0.0028	<0.0019	<0.0021	<0.0021	<0.0020	<0.0019	<0.0022	<0.0029	<0.0023	<0.0016	<0.0019	<0.0021	<0.0019	<0.0021	<0.0025	<0.0021	<0.0024	<0.0019	<0.0022	<0.0020	<0.0013
1,2-dichlorobenzene	95-50-1	6,000	6,000	<0.0028	<0.0019	<0.0021	<0.0021	<0.0020	<0.0019	<0.0022	<0.0029	<0.0023	<0.0016	<0.0019	<0.0021	<0.0019	<0.0021	<0.0025	<0.0021	<0.0024	<0.0019	<0.0022	<0.0020	<0.0013
1,2-dibromo-3-chloropropane	96-12-8	2	2	<0.0043	<0.0029	<0.0032	<0.0032	<0.0030	<0.0029	<0.0033	<0.0043	<0.0034	<0.0024	<0.0029	<0.0031	<0.0028	<0.0031	<0.0038	<0.0032	<0.0037	<0.0029	<0.0032	<0.0031	<0.0019
1,2,4-trichlorobenzene	120-82-1	2,700	2,700	<0.0028	<0.0019	<0.0021	<0.0021	<0.0020	<0.0019	<0.0022	<0.0029	<0.0023	<0.0016	<0.0019	<0.0021	<0.0019	<0.0021	<0.0025	<0.0021	<0.0024	<0.0019	<0.0022	<0.0020	<0.0013
1,2,3-trichlorobenzene	87-61-6	-	-	<0.0028	<0.0019	<0.0021	<0.0021	<0.0020	<0.0019	<0.0022	<0.0029	<0.0023	<0.0016	<0.0019	<0.0021	<0.0019	<0.0021	<0.0025	<0.0021	<0.0024	<0.0019	<0.0022	<0.0020	<0.0013

Appendix D4(c): Nonuse Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results - Semivolatile Organic Compounds

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Nonuse Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Nonuse Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-101 (0-2)	FROG-SS-101 (3-5)	FROG-SS-102 (0-2)	FROG-SS-102 (19-21)	FROG-SS-103 (0-2)	FROG-SS-103 (28-30)	FROG-SS-104 (0-2)	FROG-SS-104 (10-11.5)	FROG-SS-105 (1-3)	FROG-SS-105 (13-15)	FROG-SS-108 (1-3)	FROG-SS-108 (5.5-7.5)	FROG-SS-DUP-101	FROG-SS-109 (2.5-4.5)	FROG-SS-109 (8-10)	FROG-SS-110 (1.5-3.5)	FROG-SS-110 (5-7)	FROG-SS-111 (0-2)	FROG-SS-111 (10-11)	FROG-SS-112 (0-2)	FROG-SS-112 (7-9)	FROG-SS-115 (0-2)
Semivolatile Organic Compounds																									
benzaldehyde	100-52-7	-	-	<0.25	<0.27	<0.24	<0.27	0.076J	<0.31	<0.27	<0.27	<0.25	<0.29	<0.28	<0.28	<0.27	<0.26	<0.27	**0.23**	<0.23	<0.24	<0.27	<0.23	<0.24	<0.24
phenol	108-95-2	20000	20000	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.2	<0.17	0.033J	<0.18	<0.20	<0.18	<0.18	<0.18
bis(2-chloroethyl)ether	111-44-4	1.5	7.6	*<0.014	*<0.015	*<0.013	*<0.015	*<0.014	*<0.017	*<0.015	*<0.015	*<0.014	*<0.016	*<0.016	*<0.016	*<0.015	*<0.015	*<0.015	*<0.013	*<0.013	*<0.014	*<0.015	*<0.013	*<0.013	*<0.013
2-chlorophenol	95-57-8	4.4	4.4	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18	<0.18
2-methylphenol	95-48-7	17000	49000	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18	<0.18
bis(2-chloroisopropyl)ether	108-60-1	3000	3000	<0.23	<0.25	<0.22	<0.24	<0.23	<0.28	<0.25	<0.24	<0.22	<0.27	<0.25	<0.25	<0.25	<0.24	<0.24	<0.21	<0.20	<0.22	<0.25	<0.21	<0.21	<0.21
acetophenone	98-86-2	350	970	<0.19	<0.21	<0.18	<0.20	0.043J	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	0.13J	**0.18**	<0.18	<0.20	<0.18	<0.18	<0.18
1,4-dioxane	123-91-1	6.5	27	<0.029	<0.031	<0.027	<0.031	<0.028	<0.035	<0.031	<0.030	<0.028	<0.033	<0.032	<0.032	<0.031	<0.030	<0.030	<0.026	<0.026	<0.028	<0.031	<0.027	<0.027	<0.027
n-nitrosodi-n-propylamine	621-64-7	0.025	0.13	<0.018*	*<0.020	*<0.017	*<0.020	<0.018*	*<0.022	*<0.020	*<0.019	*<0.018	*<0.021	*<0.020	*<0.020	*<0.020	*<0.019	*<0.019	*<0.016	*<0.016	*<0.018	*<0.020	*<0.017	*<0.017	*<0.017
3-methylphenol / 4-methylphenol	108-39-4 / 106-44-5	10,000 / 17,000	10,000 / 49,000	<0.28	<0.30	<0.26	<0.30	<0.27	<0.34	<0.30	<0.29	<0.27	<0.32	<0.30	<0.30	<0.30	<0.29	<0.29	<0.25	<0.25	<0.26	<0.30	<0.26	<0.26	<0.26
hexachloroethane	67-72-1	56	56	<0.15	<0.16	<0.14	<0.16	<0.15	<0.19	<0.16	<0.16	<0.15	<0.18	<0.17	<0.17	<0.16	<0.16	<0.16	<0.14	<0.14	<0.15	<0.16	<0.14	<0.14	<0.14
nitrobenzene	98-95-3	12	63	*<0.028	*<0.031	*<0.027	*<0.030	*<0.028	*<0.035	*<0.031	*<0.030	*<0.028	*<0.033	*<0.031	*<0.031	*<0.030	*<0.029	*<0.030	*<0.025	*<0.025	*<0.027	*<0.030	*<0.026	*<0.026	*<0.026
isophorone	78-59-1	10000	10000	<0.17	<0.19	<0.16	<0.18	<0.17	<0.21	<0.19	<0.18	<0.17	<0.20	<0.19	<0.19	<0.18	<0.18	<0.18	<0.16	<0.15	<0.16	<0.18	<0.16	<0.16	<0.16
2-nitrophenol	88-75-5	2800	7800	<0.42	<0.45	<0.39	<0.44	<0.41	<0.51	<0.45	<0.44	<0.41	<0.48	<0.46	<0.45	<0.44	<0.43	<0.44	<0.37	<0.37	<0.4	<0.44	<0.38	<0.39	<0.39
2,4-dimethylphenol	105-67-9	10000	10000	<0.19	<0.21	<0.18	<0.2	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18	<0.18
bis (2-chloroethoxy)methane	111-91-1	10	29	<0.21	<0.22	<0.20	<0.22	<0.2	<0.25	<0.22	<0.22	<0.2	<0.24	<0.23	<0.23	<0.22	<0.22	<0.22	<0.19	<0.18	<0.20	<0.22	<0.19	<0.19	<0.19
2,4-dichlorophenol	120-83-2	2000	2000	<0.17	<0.19	<0.16	<0.18	<0.17	<0.21	<0.19	<0.18	<0.17	<0.20	<0.19	<0.19	<0.18	<0.18	<0.18	<0.16	<0.15	<0.16	<0.18	<0.16	<0.16	<0.16
naphthalene	91-20-3	2500	2500	**0.038**	<0.041	**0.055**	<0.041	**0.057**	<0.047	<0.041	<0.040	**0.14**	<0.044	<0.042	<0.042	<0.041	<0.04	<0.041	**0.48**	**0.51**	<0.037	<0.041	**0.10**	<0.036	**0.37**
4-chloroaniline	106-47-8	0.42	1.8	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18	<0.18
hexachlorobutadiene	87-68-3	3400	3400	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18	<0.18
caprolactam	105-60-2	-	-	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18	<0.18
p-chloro-m-cresol	59-50-7	720	2,000	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18	<0.18
2-methylnapthalene	91-57-6	25	100	0.046J	<0.25	0.13J	<0.24	0.037J	<0.28	<0.25	<0.24	**0.24**	<0.27	<0.25	<0.25	<0.25	<0.24	<0.24	**0.25**	**0.22**	<0.22	<0.25	0.10J	0.036J	**0.49**
hexachlorocyclopentadiene	77-47-4	3300	3300	<0.55	<0.59	<0.52	<0.59	<0.54	<0.67	<0.59	<0.58	<0.54	<0.63	<0.60	<0.6	<0.59	<0.57	<0.58	<0.49	<0.49	<0.53	<0.59	<0.51	<0.51	<0.51
1,2,4,5-tetrachlorobenzene	95-94-3	270	270	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.2	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18	<0.18
2,4,6-trichlorophenol	88-06-2	10000	28000	<0.12	<0.12	<0.11	<0.12	<0.11	<0.14	<0.12	<0.12	<0.11	<0.13	<0.13	<0.13	<0.12	<0.12	<0.12	<0.10	<0.10	<0.11	<0.12	<0.11	<0.11	<0.11
2,4,5-trichlorophenol	95-95-4	190,000	190,000	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18	<0.18
1,1-biphenyl	92-52-4	37	150	*<0.025	*<0.027	*<0.024	*<0.027	0.030J	*<0.030	*<0.027	*<0.026	0.046J	*<0.029	*<0.027	*<0.027	*<0.027	*<0.026	*<0.026	**0.53**	0.38J	*<0.024	*<0.027	0.024J	*<0.023	0.052J
2-chloronaphthalene	91-58-7	6,000	17,000	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18	<0.18
2-nitroaniline	88-74-4	0.011	0.044	*<0.037	*<0.040	*<0.035	*<0.040	*<0.036	*<0.045	*<0.040	*<0.039	*<0.036	*<0.043	*<0.041	*<0.040	*<0.040	*<0.038	*<0.039	*<0.033	*<0.033	*<0.036	*<0.040	*<0.034	*<0.034	*<0.034
dimethyl phthalate	131-11-3	-	-	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18	<0.18
2,6-dinitrotoluene	606-20-2	43	180	*<0.033	*<0.036	*<0.031	*<0.035	*<0.032	*<0.040	*<0.035	*<0.035	*<0.032	*<0.038	*<0.036	*<0.036	*<0.035	*<0.034	*<0.035	*<0.030	*<0.029	*<0.032	*<0.035	*<0.030	*<0.031	*<0.031
acenaphthylene	208-96-8	18,000	18,000	0.042J	<0.16	0.033J	<0.16	<0.15	<0.19	<0.16	<0.16	0.051J	<0.18	<0.17	<0.17	<0.16	0.086J	<0.16	<0.14	<0.14	<0.15	<0.16	0.10J	<0.14	0.11J
3-nitroaniline	99-09-2	-	-	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18	<0.18
acenaphthene	83-32-9	4,700	4,700	<0.15	<0.16	<0.14	<0.16	<0.15	<0.19	<0.16	<0.16	0.034J	<0.18	<0.17	<0.17	<0.16	<0.16	<0.16	0.021J	<0.14	<0.15	<0.16	**0.16**	<0.14	<0.14
2,4-dinitrophenol	51-28-5	6900	19000	<0.92	<0.99	<0.87	<0.98	<0.9	<1.1	<0.99	<0.97	<0.90	<1.1	<1.0	<1.0	<0.98	<0.96	<0.98	<0.83	<0.82	<0.88	<0.98	<0.85	<0.86	<0.86
4-nitrophenol	100-02-7	600	600	<0.27	<0.29	<0.26	<0.29	<0.26	<0.33	<0.29	<0.28	<0.26	<0.31	<0.30	<0.29	<0.29	<0.28	<0.28	<0.24	<0.24	<0.26	<0.29	<0.25	<0.25	<0.25
2,4-dinitrotoluene	121-14-2	210	880	<0.19	<0.21	<0.18	<0.20	<0.19	*<0.047	<0.21	<0.20	<0.19	*<0.044	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18	<0.18
dibenzofuran	132-64-9	9000	12000	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	0.050J	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	0.042J	0.035J	<0.18	<0.20	0.11J	<0.18	0.10J
2,3,4,6-tetrachlorophenol	58-90-2	190,000	190,000	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18	<0.18
diethyl phthalate	84-66-2	10,000	10000	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18	<0.18
fluorene	86-73-7	3,800	3,800	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	0.059J	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	0.026J	0.020J	<0.18	<0.20	0.15J	<0.18	0.044J
4-chlorophenyl phenyl ether	7005-72-3	-	-	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18	<0.18
4-nitroaniline	100-01-6	3.3	14	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18	<0.18
4,6-dinitro-o-cresol	534-52-1	28	78	*<0.092	*<0.099	*<0.087	*<0.098	*<0.090	*<0.11	*<0.099	*<0.097	*<0.090	*<0.11	*<0.10	*<0.10	*<0.098	*<0.096	*<0.098	*<0.083	*<0.082	*<0.088	*<0.098	*<0.085	*<0.086	*<0.086

Appendix D4(c): Nonuse Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results - Semivolatile Organic Compounds

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Nonuse Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Nonuse Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-101 (0-2)	FROG-SS-101 (3-5)	FROG-SS-102 (0-2)	FROG-SS-102 (19-21)	FROG-SS-103 (0-2)	FROG-SS-103 (28-30)	FROG-SS-104 (0-2)	FROG-SS-104 (10-11.5)	FROG-SS-105 (1-3)	FROG-SS-105 (13-15)	FROG-SS-108 (1-3)	FROG-SS-108 (5.5-7.5)	FROG-SS-DUP-101	FROG-SS-109 (2.5-4.5)	FROG-SS-109 (8-10)	FROG-SS-110 (1.5-3.5)	FROG-SS-110 (5-7)	FROG-SS-111 (0-2)	FROG-SS-111 (10-11)	FROG-SS-112 (0-2)	FROG-SS-112 (7-9)	FROG-SS-115 (0-2)
n-nitrosodiphenylamine / diphenylamine	86-30-6 / 122-39-4	300 / 30,000	1,500 / 30,000	<0.15	<0.16	<0.14	<0.16	<0.15	<0.19	<0.16	<0.16	<0.15	<0.18	<0.17	<0.17	<0.16	<0.16	<0.16	<0.14	<0.14	<0.15	<0.16	<0.14	<0.14	<0.14
4-bromophenyl phenyl ether	101-55-3	-	-	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18	<0.18
hexachlorobenzene	118-74-1	5.8	5.8	<0.12	<0.12	<0.11	<0.12	<0.11	<0.14	<0.12	<0.12	<0.11	<0.13	<0.13	<0.13	<0.12	<0.12	<0.12	<0.10	<0.10	<0.11	<0.12	<0.11	<0.11	<0.11
pentachlorophenol	87-86-5	5000	5000	<0.15	<0.16	<0.14	<0.16	<0.15	<0.19	<0.16	<0.16	<0.15	<0.18	<0.17	<0.17	<0.16	<0.16	<0.16	<0.14	<0.14	<0.15	<0.16	<0.14	<0.14	<0.14
atrazine	1912-24-9	0.3	0.3	<0.15	<0.16	<0.14	<0.16	<0.15	<0.19	<0.16	<0.16	<0.15	<0.18	<0.17	<0.17	<0.16	<0.16	<0.16	<0.14	<0.14	<0.15	<0.16	<0.14	<0.14	<0.14
phenanthrene	85-01-8	10000	10000	**0.17**	<0.12	**0.16**	<0.12	0.057J	<0.14	<0.12	<0.12	**0.42**	<0.13	0.040J	<0.13	<0.12	**0.13**	<0.12	**0.27**	**0.22**	0.024J	0.025J	**2.2**	<0.11	**0.46**
anthracene	120-12-7	350	350	0.042J	<0.12	<0.11	<0.12	<0.11	<0.14	<0.12	<0.12	0.071J	<0.13	<0.13	<0.13	<0.12	<0.12	<0.12	<0.10	<0.10	<0.11	<0.12	**0.49**	<0.11	0.090J
carbazole	86-74-8	21	89	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	0.046J	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	0.021J	0.021J	<0.18	<0.20	**0.35**	<0.18	0.030J
di-n-butyl phthalate	84-74-2	10000	10000	<0.19	<0.21	<0.18	<0.20	0.11J	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	0.041J	<0.20	<0.20	0.061J	0.034J	<0.18	<0.20	<0.18	<0.18	<0.18
fluoranthene	206-44-0	3200	3200	**0.22**	<0.12	**0.22**	<0.12	0.097J	<0.14	<0.12	<0.12	**0.47**	<0.13	0.046J	<0.13	<0.12	**0.24**	<0.12	0.052J	0.056J	0.030J	0.048J	**3.4**	<0.11	**0.39**
pyrene	129-00-0	2200	2200	**0.23**	<0.12	**0.21**	<0.12	0.087J	<0.14	<0.12	<0.12	**0.41**	<0.13	0.041J	<0.13	<0.12	**0.30**	<0.12	0.046J	0.049J	0.028J	0.044J	**2.7**	<0.11	**0.48**
butyl benzyl phthalate	85-68-7	10000	10000	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18	<0.18
3-3'-dichlorobenzidine	91-94-1	7700	17000	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18	<0.18
benzo(a)anthracene	56-55-3	960	960	**0.12**	<0.12	**0.11**	<0.12	0.050J	<0.14	<0.12	<0.12	**0.22**	<0.13	0.033J	<0.13	<0.12	**0.13**	<0.12	<0.10	0.025J	<0.11	0.030J	**1.6**	<0.11	**0.28**
chrysene	218-01-9	230	230	**0.19**	<0.12	**0.14**	<0.12	0.072J	<0.14	<0.12	<0.12	**0.30**	<0.13	0.034J	<0.13	<0.12	**0.17**	<0.12	0.035J	0.040J	0.025J	0.026J	**1.7**	<0.11	**0.4**
bis(2-ethylhexyl) phthalate	117-81-7	6300	6300	<0.19	<0.21	<0.18	<0.20	0.077J	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	0.074J	<0.17	<0.18	<0.20	<0.18	<0.18	<0.18
di-n-octyl phthalate	117-84-0	10000	10000	<0.19	<0.21	<0.18	<0.20	<0.19	<0.24	<0.21	<0.20	<0.19	<0.22	<0.21	<0.21	<0.20	<0.20	<0.20	<0.17	<0.17	<0.18	<0.20	<0.18	<0.18	<0.18
benzo(b)fluoranthene	205-99-2	170	170	**0.18**	<0.12	**0.16**	<0.12	0.098J	<0.14	<0.12	<0.12	**0.33**	<0.13	<0.13	<0.13	<0.12	**0.17**	<0.12	<0.10	<0.10	<0.11	<0.12	**2.3**	<0.11	**0.34**
benzo(k)fluoranthene	207-08-9	610	610	0.047J	<0.12	0.046J	<0.12	<0.11	<0.14	<0.12	<0.12	0.076J	<0.13	<0.13	<0.13	<0.12	0.054J	<0.12	<0.10	<0.10	<0.11	<0.12	**0.67**	<0.11	0.10J
benzo(a)pyrene	50-32-8	860	860	0.11J	<0.16	0.11J	<0.16	0.063J	<0.19	<0.16	<0.16	**0.21**	<0.18	<0.17	<0.17	<0.16	0.14J	<0.16	<0.14	<0.14	<0.15	<0.16	**1.7**	<0.14	**0.28**
indeno (1,2,3-cd) pyrene	193-39-5	190000	190000	0.098J	<0.16	0.086J	<0.16	0.051J	<0.19	<0.16	<0.16	0.14J	<0.18	<0.17	<0.17	<0.16	0.088J	<0.16	<0.14	<0.14	<0.15	<0.16	**1.2**	<0.14	**0.18**
dibenzo(a,h)anthracene	53-70-3	270	270	0.025J	<0.12	0.023J	<0.12	<0.11	<0.14	<0.12	<0.12	0.034J	<0.13	<0.13	<0.13	<0.12	<0.12	<0.12	<0.10	<0.10	<0.11	<0.12	**0.23**	<0.11	0.076J
benzo(g,h,i)perylene	191-24-2	180	180	0.10J	<0.16	0.085J	<0.16	0.057J	<0.19	<0.16	<0.16	**0.15**	<0.18	<0.17	<0.17	<0.16	0.10J	<0.16	<0.14	<0.14	<0.15	<0.16	**1.0**	<0.14	**0.22**

Appendix D4(c): Nonuse Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results - Semivolatile Organic Compounds

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Nonuse Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Nonuse Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-115 (6.5-8.5)	FROG-SS-116 (0-2)	FROG-SS-116 (18.5-20.5)	FROG-SS-117 (0-2)	FROG-SS-DUP-103	FROG-SS-117 (11-13)	FROG-SS-118 (0-2)	FROG-SS-118 (10-12)	FROG-SS-DUP-102	FROG-SS-119 (0-0.5)	FROG-SS-119 (0.5-1)	FROG-SS-120 (0-2)	FROG-SS-120 (2-3.5)	FROG-SS-121 (0-2)	FROG-SS-121 (20-21.5)	FROG-SS-122 (1.5-3.5)	FROG-SS-122 (30-32)	FROG-SS-123 (1-3)	FROG-SS-123 (17-19)	FROG-SS-DUP-104	FROG-SS-124 (FLOOR)	FROG-SS-125 (FLOOR)
Semivolatile Organic Compounds																										
benzaldehyde	100-52-7	-	-	<0.27	<0.23	<0.27	<0.23	<0.23	<0.25	<0.26	<0.27	<0.27	<1.2	<0.24	<0.24	<0.24	<0.24	<0.26	<0.26	<0.33	<0.26	<0.27	<0.27	<0.23	<0.22
phenol	108-95-2	20000	20000	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	0.037	<0.19	0.043J	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	<0.17	<0.17
bis(2-chloroethyl)ether	111-44-4	1.5	7.6	*<0.015	*<0.013	*<0.015	*<0.013	*<0.013	*<0.014	*<0.015	*<0.015	*<0.015	*<0.067	*<0.014	*<0.013	*<0.014	*<0.013	*<0.014	*<0.014	*<0.018	*<0.014	*<0.015	*<0.015	*<0.013	*<0.012
2-chlorophenol	95-57-8	4.4	4.4	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	<0.17	<0.17
2-methylphenol	95-48-7	17000	49000	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	<0.17	<0.17
bis(2-chloroisopropyl)ether	108-60-1	3000	3000	<0.24	<0.21	<0.24	<0.21	<0.21	<0.23	<0.24	<0.25	<0.25	<1.1	<0.22	<0.22	<0.22	<0.22	<0.24	<0.23	<0.30	<0.23	<0.24	<0.24	<0.20	<0.20
acetophenone	98-86-2	350	970	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	<0.17	<0.17
1,4-dioxane	123-91-1	6.5	27	<0.031	<0.026	<0.030	<0.026	<0.026	<0.028	<0.030	<0.031	<0.031	<0.14	<0.028	<0.027	<0.028	<0.027	<0.030	<0.029	<0.037	<0.029	<0.030	<0.030	<0.026	<0.025
n-nitrosodi-n-propylamine	621-64-7	0.025	0.13	*<0.020	*<0.017	*<0.019	*<0.017	*<0.016	*<0.018	*<0.019	*<0.020	*<0.020	*<0.086	*<0.018	*<0.017	*<0.018	*<0.017	*<0.019	*<0.018	*<0.024	*<0.018	*<0.019	*<0.019	*<0.016	*<0.016
3-methylphenol / 4-methylphenol	108-39-4 / 106-44-5	10,000 / 17,000	10,000 / 49,000	<0.29	<0.25	<0.29	<0.25	<0.25	<0.27	<0.29	<0.30	<0.30	<1.3	<0.27	0.029J	<0.27	0.071J	<0.28	<0.28	<0.36	<0.28	<0.29	<0.29	<0.25	<0.24
hexachloroethane	67-72-1	56	56	<0.16	<0.14	<0.16	<0.14	<0.14	<0.15	<0.16	<0.16	<0.16	*<0.14	<0.15	<0.14	<0.15	<0.14	<0.16	<0.16	<0.20	<0.16	<0.16	<0.16	<0.14	<0.13
nitrobenzene	98-95-3	12	63	*<0.030	*<0.026	*<0.030	*<0.026	*<0.026	*<0.028	*<0.030	*<0.030	*<0.031	*<0.13	*<0.027	*<0.027	*<0.028	*<0.027	*<0.029	*<0.029	*<0.037	*<0.029	*<0.030	*<0.030	*<0.025	*<0.025
isophorone	78-59-1	10000	10000	<0.18	<0.16	<0.18	<0.16	<0.16	<0.17	<0.18	<0.18	<0.19	<0.81	<0.17	<0.16	<0.17	<0.16	<0.18	<0.17	<0.22	<0.17	<0.18	<0.18	<0.15	<0.15
2-nitrophenol	88-75-5	2800	7800	<0.44	<0.38	<0.44	<0.38	<0.37	<0.41	<0.43	<0.44	<0.45	<1.9	<0.40	<0.39	<0.4	<0.39	<0.42	<0.42	<0.53	<0.42	<0.44	<0.44	<0.37	<0.36
2,4-dimethylphenol	105-67-9	10000	10000	<0.20	<0.18	<0.20	<0.17	<0.17	<0.16	<0.20	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	<0.17	<0.17
bis (2-chloroethoxy)methane	111-91-1	10	29	<0.22	<0.19	<0.22	<0.19	<0.19	<0.20	<0.22	<0.22	<0.22	<0.97	<0.20	<0.20	<0.2	<0.19	<0.21	<0.21	<0.27	<0.21	<0.22	<0.22	<0.18	<0.18
2,4-dichlorophenol	120-83-2	2000	2000	<0.18	<0.16	<0.18	<0.16	<0.16	<0.17	<0.18	<0.18	<0.19	<0.81	<0.17	<0.16	<0.17	<0.16	<0.18	<0.17	<0.22	<0.17	<0.18	<0.18	<0.15	<0.15
naphthalene	91-20-3	2500	2500	<0.041	**0.059**	**0.14**	<0.035	**0.035**	<0.038	<0.04	<0.041	<0.041	<0.18	<0.037	**0.13**	**0.069**	**0.48**	<0.039	<0.039	<0.049	<0.039	<0.040	<0.041	**0.46**	**0.045**
4-chloroaniline	106-47-8	0.42	1.8	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	*<0.16	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	<0.17	<0.17
hexachlorobutadiene	87-68-3	3400	3400	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	<0.17	<0.17
caprolactam	105-60-2	-	-	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	<0.17	<0.17
p-chloro-m-cresol	59-50-7	720	2,000	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	<0.17	<0.17
2-methylnapthalene	91-57-6	25	100	<0.24	0.13J	0.13J	<0.21	0.045J	<0.23	<0.24	<0.25	<0.25	<1.1	<0.22	0.13J	0.093J	**0.49**	<0.24	<0.23	<0.30	<0.23	<0.24	<0.24	0.030J	<0.20
hexachlorocyclopentadiene	77-47-4	3300	3300	<0.58	<0.50	<0.58	<0.50	<0.49	<0.54	<0.57	<0.59	<0.59	<2.6	<0.53	<0.52	<0.53	<0.52	<0.56	<0.55	<0.71	<0.56	<0.58	<0.58	<0.49	<0.48
1,2,4,5-tetrachlorobenzene	95-94-3	270	270	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	<0.17	<0.17
2,4,6-trichlorophenol	88-06-2	10000	28000	<0.12	<0.10	<0.12	<0.10	<0.10	<0.11	<0.12	<0.12	<0.12	<0.54	<0.11	<0.11	<0.11	<0.11	<0.12	<0.12	<0.15	<0.12	<0.12	<0.12	<0.10	<0.10
2,4,5-trichlorophenol	95-95-4	190,000	190,000	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	<0.17	<0.17
1,1-biphenyl	92-52-4	37	150	*<0.027	0.023J	*<0.026	*<0.023	*<0.022	*<0.024	*<0.026	*<0.027	*<0.027	*<0.12	*<0.024	0.031J	*<0.024	0.071J	*<0.026	*<0.025	*<0.032	*<0.025	*<0.026	*<0.026	*<0.022	*<0.022
2-chloronaphthalene	91-58-7	6,000	17,000	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	<0.17	<0.17
2-nitroaniline	88-74-4	0.011	0.044	*<0.039	*<0.034	*<0.039	*<0.034	*<0.033	*<0.036	*<0.038	*<0.040	*<0.040	*<0.17	*<0.036	*<0.035	*<0.036	*<0.035	*<0.038	*<0.037	*<0.048	*<0.037	*<0.039	*<0.039	*<0.033	*<0.032
dimethyl phthalate	131-11-3	-	-	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	<0.17	<0.17
2,6-dinitrotoluene	606-20-2	43	180	*<0.035	*<0.030	*<0.035	*<0.030	*<0.030	*<0.032	*<0.034	*<0.034	*<0.036	*<0.15	*<0.032	*<0.031	*<0.032	*<0.031	*<0.034	*<0.033	*<0.042	*<0.033	*<0.035	*<0.035	*<0.029	*<0.028
acenaphthylene	208-96-8	18,000	18,000	<0.16	<0.14	<0.16	<0.14	<0.14	<0.15	<0.16	<0.16	<0.16	<0.72	<0.15	**0.24**	<0.15	**0.49**	<0.16	<0.16	<0.20	<0.16	<0.16	<0.16	<0.14	<0.13
3-nitroaniline	99-09-2	-	-	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.9	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	<0.17	<0.17
acenaphthene	83-32-9	4,700	4,700	<0.16	0.024J	0.027J	<0.14	<0.14	<0.15	<0.16	<0.16	<0.16	<0.72	<0.15	**0.32**	**0.28**	**0.28**	<0.16	<0.16	<0.20	<0.16	<0.16	<0.16	<0.14	<0.13
2,4-dinitrophenol	51-28-5	6900	19000	<0.98	<0.84	<0.97	<0.83	<0.83	<0.90	<0.96	<0.98	<0.99	<4.3	<0.89	<0.87	<0.89	<0.86	<0.94	<0.93	<1.2	<0.93	<0.97	<0.98	<0.82	<0.8
4-nitrophenol	100-02-7	600	600	<0.28	<0.25	<0.28	<0.24	<0.24	<0.26	<0.28	<0.29	<0.29	<1.3	<0.26	<0.25	<0.26	<0.25	<0.28	<0.27	<0.35	<0.27	<0.28	<0.28	<0.24	<0.23
2,4-dinitrotoluene	121-14-2	210	880	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	*<0.18	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	*<0.049	<0.19	<0.20	<0.20	<0.17	<0.17
dibenzofuran	132-64-9	9000	12000	<0.20	0.033J	<0.20	<0.17	0.016J	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	**0.18**	0.099J	**0.35**	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	<0.17	<0.17
2,3,4,6-tetrachlorophenol	58-90-2	190,000	190,000	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	<0.17	<0.17
diethyl phthalate	84-66-2	10,000	10000	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	<0.17	<0.17
fluorene	86-73-7	3,800	3,800	<0.20	0.020J	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	**0.37**	0.15J	**0.36**	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	<0.17	<0.17
4-chlorophenyl phenyl ether	7005-72-3	-	-	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	<0.17	<0.17
4-nitroaniline	100-01-6	3.3	14	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	<0.17	<0.17
4,6-dinitro-o-cresol	534-52-1	28	78	*<0.098	*<0.084	*<0.097	*<0.083	*<0.083	*<0.090	*<0.096	*<0.098	*<0.099	*<0.43	*<0.089	*<0.087	*<0.089	*<0.086	*<0.094	*<0.093	*<0.12	*<0.093	*<0.097	*<0.098	*<0.082	*<0.080

Appendix D4(c): Nonuse Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results - Semivolatile Organic Compounds

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Nonuse Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Nonuse Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-115 (6.5-8.5)	FROG-SS-116 (0-2)	FROG-SS-116 (18.5-20.5)	FROG-SS-117 (0-2)	FROG-SS-DUP-103	FROG-SS-117 (11-13)	FROG-SS-118 (0-2)	FROG-SS-118 (10-12)	FROG-SS-DUP-102	FROG-SS-119 (0-0.5)	FROG-SS-119 (0.5-1)	FROG-SS-120 (0-2)	FROG-SS-120 (2-3.5)	FROG-SS-121 (0-2)	FROG-SS-121 (20-21.5)	FROG-SS-122 (1.5-3.5)	FROG-SS-122 (30-32)	FROG-SS-123 (1-3)	FROG-SS-123 (17-19)	FROG-SS-DUP-104	FROG-SS-124 (FLOOR)	FROG-SS-125 (FLOOR)
n-nitrosodiphenylamine / diphenylamine	86-30-6 / 122-39-4	300 / 30,000	1,500 / 30,000	<0.16	<0.14	<0.16	<0.14	<0.14	<0.15	<0.16	<0.16	<0.16	<0.72	<0.15	<0.14	<0.15	<0.14	<0.16	<0.16	<0.20	<0.16	<0.16	<0.16	<0.14	<0.13
4-bromophenyl phenyl ether	101-55-3	-	-	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	<0.17	<0.17
hexachlorobenzene	118-74-1	5.8	5.8	<0.12	<0.10	<0.12	<0.10	<0.10	<0.11	<0.12	<0.12	<0.12	<0.54	<0.11	<0.11	<0.11	<0.11	<0.12	<0.12	<0.15	<0.12	<0.12	<0.12	<0.10	<0.10
pentachlorophenol	87-86-5	5000	5000	<0.16	<0.14	<0.16	<0.14	<0.14	<0.15	<0.16	<0.16	<0.16	<0.72	<0.15	<0.14	<0.15	<0.14	<0.16	<0.16	<0.20	<0.16	<0.16	<0.16	<0.14	<0.13
atrazine	1912-24-9	0.3	0.3	<0.16	<0.14	<0.16	<0.14	<0.14	<0.15	<0.16	<0.16	<0.16	*<0.32	<0.15	<0.14	<0.15	<0.14	<0.16	<0.16	<0.20	<0.16	<0.16	<0.16	<0.14	<0.13
phenanthrene	85-01-8	10000	10000	<0.12	**0.15**	<0.12	0.070J	0.087J	0.057J	0.025J	<0.12	<0.12	0.13J	<0.11	**5.9**	**1.9**	**5.8**	<0.12	0.025J	<0.15	<0.12	<0.12	<0.12	**0.30**	0.058J
anthracene	120-12-7	350	350	<0.12	0.042J	<0.12	<0.10	<0.10	<0.11	<0.12	<0.12	<0.12	<0.54	0.033J	**2.1**	**0.49**	**1.1**	<0.12	<0.12	<0.15	<0.12	<0.12	<0.12	0.057J	<0.10
carbazole	86-74-8	21	89	<0.20	0.026J	<0.20	0.021J	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	**0.32**	**0.22**	**0.55**	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	0.059J	<0.17
di-n-butyl phthalate	84-74-2	10000	10000	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.2	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	<0.17	<0.17
fluoranthene	206-44-0	3200	3200	<0.12	**0.22**	<0.12	**0.12**	**0.12**	0.049J	0.026J	<0.12	<0.12	0.23J	0.10J	**11**	**3.0**	**7.2**	<0.12	0.037J	<0.15	<0.12	<0.12	<0.12	**0.47**	0.060J
pyrene	129-00-0	2200	2200	<0.12	**0.18**	<0.12	**0.11**	**0.12**	0.040J	0.023J	<0.12	<0.12	0.22J	**0.12**	**9.3**	**2.3**	**6.0**	<0.12	0.039J	<0.15	<0.12	<0.12	<0.12	**0.40**	0.052J
butyl benzyl phthalate	85-68-7	10000	10000	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	.064J	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	<0.17	<0.17
3-3'-dichlorobenzidine	91-94-1	7700	17000	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	<0.90	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	<0.17	<0.17
benzo(a)anthracene	56-55-3	960	960	<0.12	**0.11**	<0.12	0.065J	0.065J	0.024J	<0.12	<0.12	<0.12	0.15J	**0.12**	**6.6**	**1.5**	**3.8**	<0.12	<0.12	<0.15	<0.12	<0.12	<0.12	**0.19**	<0.10
chrysene	218-01-9	230	230	<0.12	**0.10**	<0.12	0.070J	0.078J	0.021J	<0.12	<0.12	<0.12	0.18J	**0.17**	**4.8**	**1.3**	**3.6**	<0.12	0.022J	<0.15	<0.12	<0.12	<0.12	**0.26**	<0.10
bis(2-ethylhexyl) phthalate	117-81-7	6300	6300	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.2	<0.21	0.69J	<0.18	**0.20**	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	<0.17	<0.17
di-n-octyl phthalate	117-84-0	10000	10000	<0.20	<0.18	<0.20	<0.17	<0.17	<0.19	<0.20	<0.20	<0.21	0.81J	<0.18	<0.18	<0.19	<0.18	<0.20	<0.19	<0.25	<0.19	<0.20	<0.20	<0.17	<0.17
benzo(b)fluoranthene	205-99-2	170	170	<0.12	**0.14**	<0.12	0.088J	0.096J	<0.11	<0.12	<0.12	<0.12	0.31J	**0.34**	**9.5**	**2.0**	**5.0**	<0.12	<0.12	<0.15	<0.12	<0.12	<0.12	**0.29**	<0.10
benzo(k)fluoranthene	207-08-9	610	610	<0.12	0.053J	<0.12	<0.10	<0.10	<0.11	<0.12	<0.12	<0.12	<0.54	0.095J	**1.4**	**0.54**	**1.2**	<0.12	<0.12	<0.15	<0.12	<0.12	<0.12	**0.10**	<0.10
benzo(a)pyrene	50-32-8	860	860	<0.16	0.12J	<0.16	0.064J	0.067J	<0.15	<0.16	<0.16	<0.16	<0.72	**0.21**	**6.7**	**1.5**	**3.7**	<0.16	<0.16	<0.20	<0.16	<0.16	<0.16	**0.14**	<0.13
indeno (1,2,3-cd) pyrene	193-39-5	190000	190000	<0.16	0.080J	<0.16	0.045J	0.050J	<0.15	<0.16	<0.16	<0.16	0.16J	**0.18**	**3.8**	**1.0**	**2.5**	<0.16	<0.16	<0.20	<0.16	<0.16	<0.16	0.12J	<0.13
dibenzo(a,h)anthracene	53-70-3	270	270	<0.12	<0.10	<0.12	<0.10	<0.10	<0.11	<0.12	<0.12	<0.12	<0.54	0.045J	**0.64**	**0.20**	**0.43**	<0.12	<0.12	<0.15	<0.12	<0.12	<0.12	0.038J	<0.10
benzo(g,h,i)perylene	191-24-2	180	180	<0.16	0.073J	0.031J	0.044J	0.050J	<0.15	<0.16	<0.16	<0.16	0.23J	**0.21**	**3.3**	**0.90**	**2.4**	<0.16	<0.16	<0.20	<0.16	<0.16	<0.16	**0.17**	<0.13

Appendix D4(c): Nonuse Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results - Semivolatile Organic Compounds

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Nonuse Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Nonuse Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-126 (FLOOR)	FROG-SS-DUP-105	FROG-SS-127 (FLOOR)	FROG-SS-212 (5.0-7.0)	FROG-SS-217 (0.0-2.0)	FROG-SS-217 (4.0-5.0)	FROG-SS-217 (9.0-10.0)	FROG-SS-217 (11.0-12.0)	FROG-SS-218 (0.0-2.0)	FROG-SS-218 (4.0-5.0)	FROG-SS-218 (9.0-10.0)	FROG-SS-218 (11.0-12.0)	FROG-SS-219 (0.0-2.0)	FROG-SS-DUP-204	FROG-SS-219 (4.0-5.0)	FROG-SS-219 (5.5-6.5)	FROG-SS-220 (0.0-2.0)	FROG-SS-220 (4.0-5.0)	FROG-SS-DUP-203	FROG-SS-220 (5.5-6.0)	FROG-SS-221 (0.0-2.0)
Semivolatile Organic Compounds																								
benzaldehyde	100-52-7	-	-	0.16J	0.12J	<0.21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
phenol	108-95-2	20000	20000	0.15J	**0.19**	0.044J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-chloroethyl)ether	111-44-4	1.5	7.6	*<0.012	*<0.012	*<0.012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-chlorophenol	95-57-8	4.4	4.4	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-methylphenol	95-48-7	17000	49000	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-chloroisopropyl)ether	108-60-1	3000	3000	<0.2	<0.20	<0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
acetophenone	98-86-2	350	970	0.13J	0.13J	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-dioxane	123-91-1	6.5	27	<0.025	<0.025	<0.024	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-nitrosodi-n-propylamine	621-64-7	0.025	0.13	*<0.016	*<0.016	*<0.016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-methylphenol / 4-methylphenol	108-39-4 / 106-44-5	10,000 / 17,000	10,000 / 49,000	<0.24	<0.24	<0.23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
hexachloroethane	67-72-1	56	56	<0.13	<0.13	<0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
nitrobenzene	98-95-3	12	63	*<0.025	*<0.024	*<0.024	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
isophorone	78-59-1	10000	10000	<0.15	<0.15	<0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-nitrophenol	88-75-5	2800	7800	<0.36	<0.36	<0.35	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-dimethylphenol	105-67-9	10000	10000	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis (2-chloroethoxy)methane	111-91-1	10	29	<0.18	<0.18	<0.18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-dichlorophenol	120-83-2	2000	2000	<0.15	<0.15	<0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
naphthalene	91-20-3	2500	2500	**0.51**	**0.18**	0.026J	**13**	**0.10**	**0.049**	<0.041	<0.043	0.11J	0.030J	<0.041	<0.040	<0.18	**0.12**	**0.054**	<0.042	**0.049**	**0.040**	**0.037**	0.028J	**0.093**
4-chloroaniline	106-47-8	0.42	1.8	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
hexachlorobutadiene	87-68-3	3400	3400	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
caprolactam	105-60-2	-	-	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-chloro-m-cresol	59-50-7	720	2,000	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-methylnapthalene	91-57-6	25	100	0.064J	0.060J	0.036J	**69**	0.19J	0.038J	<0.25	<0.26	<1.0	0.034J	<0.24	<0.24	<1.0	0.096J	0.068J	<0.25	0.059J	0.052J	0.045J	<0.23	0.11J
hexachlorocyclopentadiene	77-47-4	3300	3300	<0.48	<0.47	<0.46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4,5-tetrachlorobenzene	95-94-3	270	270	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-trichlorophenol	88-06-2	10000	28000	<0.10	<0.10	<0.098	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-trichlorophenol	95-95-4	190,000	190,000	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-biphenyl	92-52-4	37	150	<0.077J	0.075J	<0.37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-chloronaphthalene	91-58-7	6,000	17,000	<0.17	<0.17	<0.16	<2.6	<0.18	<0.20	<0.20	<0.21	<0.88	<0.19	<0.20	<0.20	<0.88	<0.19	<0.19	<0.21	<0.18	<0.18	<0.18	<0.19	<0.17
2-nitroaniline	88-74-4	0.011	0.044	*<0.032	*<0.032	*<0.031	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
dimethyl phthalate	131-11-3	-	-	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-dinitrotoluene	606-20-2	43	180	*<0.029	*<0.028	*<0.028	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
acenaphthylene	208-96-8	18,000	18,000	<0.13	<0.13	<0.13	<2.1	<0.14	0.13J	<0.16	<0.17	<0.70	<0.15	<0.16	<0.16	<0.70	0.089J	0.045J	<0.17	0.034J	<0.14	<0.15	0.031J	0.11J
3-nitroaniline	99-09-2	-	-	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
acenaphthene	83-32-9	4,700	4,700	<0.13	<0.13	<0.13	**4.7**	0.019J	0.046J	<0.16	<0.17	<0.70	<0.15	<0.16	<0.16	<0.70	<0.15	<0.15	<0.17	<0.14	<0.14	<0.15	<0.16	0.065J
2,4-dinitrophenol	51-28-5	6900	19000	<0.80	<0.80	<0.78	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-nitrophenol	100-02-7	600	600	**0.31**	<0.23	<0.23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-dinitrotoluene	121-14-2	210	880	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
dibenzofuran	132-64-9	9000	12000	<0.17	<0.17	0.015J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,4,6-tetrachlorophenol	58-90-2	190,000	190,000	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
diethyl phthalate	84-66-2	10,000	10000	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
fluorene	86-73-7	3,800	3,800	<0.17	<0.17	<0.16	**6.7**	0.020J	0.082J	<0.20	<0.21	<0.88	<0.19	<0.20	<0.20	<0.88	0.018J	<0.19	<0.21	0.019J	<0.18	<0.18	<0.19	0.072J
4-chlorophenyl phenyl ether	7005-72-3	-	-	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-nitroaniline	100-01-6	3.3	14	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-dinitro-o-cresol	534-52-1	28	78	*<0.080	*<0.080	*<0.078	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix D4(c): Nonuse Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results - Semivolatile Organic Compounds

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Nonuse Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Nonuse Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-126 (FLOOR)	FROG-SS-DUP-105	FROG-SS-127 (FLOOR)	FROG-SS-212 (5.0-7.0)	FROG-SS-217 (0.0-2.0)	FROG-SS-217 (4.0-5.0)	FROG-SS-217 (9.0-10.0)	FROG-SS-217 (11.0-12.0)	FROG-SS-218 (0.0-2.0)	FROG-SS-218 (4.0-5.0)	FROG-SS-218 (9.0-10.0)	FROG-SS-218 (11.0-12.0)	FROG-SS-219 (0.0-2.0)	FROG-SS-DUP-204	FROG-SS-219 (4.0-5.0)	FROG-SS-219 (5.5-6.5)	FROG-SS-220 (0.0-2.0)	FROG-SS-220 (4.0-5.0)	FROG-SS-DUP-203	FROG-SS-220 (5.5-6.0)	FROG-SS-221 (0.0-2.0)
n-nitrosodiphenylamine / diphenylamine	86-30-6 / 122-39-4	300 / 30,000	1,500 / 30,000	<0.13	<0.13	<0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-bromophenyl phenyl ether	101-55-3	-	-	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
hexachlorobenzene	118-74-1	5.8	5.8	<0.10	<0.10	<0.098	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pentachlorophenol	87-86-5	5000	5000	<0.13	<0.13	<0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
atrazine	1912-24-9	0.3	0.3	<0.13	<0.13	<0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
phenanthrene	85-01-8	10000	10000	**0.53**	**0.54**	0.067J	**10**	**0.24**	**1.2**	<0.12	<0.13	0.13J	0.053J	<0.12	<0.12	0.11J	**0.34**	**0.16**	<0.13	**0.21**	0.074J	0.067J	**0.12**	**0.88**
anthracene	120-12-7	350	350	0.042J	0.057J	<0.098	1.5J	<0.11	**0.26**	<0.12	<0.13	<0.52	<0.11	<0.12	<0.12	<0.53	0.082J	0.039J	<0.13	0.060J	<0.11	<0.11	<0.12	**0.22**
carbazole	86-74-8	21	89	0.088J	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
di-n-butyl phthalate	84-74-2	10000	10000	0.054J	<0.17	0.097J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
fluoranthene	206-44-0	3200	3200	**0.30**	**0.26**	0.087J	0.56J	0.23	1.0	<0.12	<0.13	0.17J	0.055J	<0.12	<0.12	0.23J	0.63	0.29	<0.13	0.40	0.072J	0.083J	**0.21**	**1.4**
pyrene	129-00-0	2200	2200	**0.22**	**0.20**	0.075J	0.58J	0.20	1.0	<0.12	<0.13	0.18J	0.054J	<0.12	<0.12	0.20J	0.59	0.28	<0.13	0.33	0.058J	0.074J	**0.25**	**1.2**
butyl benzyl phthalate	85-68-7	10000	10000	<0.17	0.098J	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-3'-dichlorobenzidine	91-94-1	7700	17000	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(a)anthracene	56-55-3	960	960	0.040J	0.047J	0.021J	<1.6	**0.13**	**0.62**	<0.12	<0.13	0.12J	0.049J	<0.12	<0.12	0.16J	**0.47**	**0.19**	<0.13	**0.23**	0.036J	0.0436J	0.14	0.83
chrysene	218-01-9	230	230	**0.10**	**0.11**	0.049J	<1.6	**0.14**	**0.67**	<0.12	<0.13	0.13J	0.066J	<0.12	<0.12	0.21J	**0.63**	**0.23**	<0.13	**0.22**	0.040J	0.047J	0.17	0.75
bis(2-ethylhexyl) phthalate	117-81-7	6300	6300	<0.17	<0.17	**0.51**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
di-n-octyl phthalate	117-84-0	10000	10000	<0.17	<0.17	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(b)fluoranthene	205-99-2	170	170	<0.10	0.050J	<0.098	<1.6	**0.16**	**0.48**	<0.12	<0.13	0.18J	0.083J	<0.12	<0.12	0.33J	**1.0**	**0.28**	<0.13	**0.29**	0.050J	0.057J	**0.17**	**1.0**
benzo(k)fluoranthene	207-08-9	610	610	<0.10	<0.10	<0.098	<1.6	0.061J	**0.15**	<0.12	<0.13	<0.52	<0.11	<0.12	<0.12	<0.53	**0.26**	0.10J	<0.13	0.084J	<0.11	<0.11	0.044J	**0.27**
benzo(a)pyrene	50-32-8	860	860	<0.13	<0.13	<0.13	<2.1	0.12J	**0.39**	<0.16	<0.17	<0.70	0.050J	<0.16	<0.16	<0.70	**0.44**	**0.20**	<0.17	**0.21**	<0.14	<0.15	0.14J	0.70
indeno (1,2,3-cd) pyrene	193-39-5	190000	190000	<0.13	<0.13	<0.13	<2.1	0.084J	**0.19**	<0.16	<0.17	<0.70	0.040J	<0.16	<0.16	0.13J	**0.43**	0.13J	<0.17	**0.14**	<0.14	0.028J	0.083J	**0.43**
dibenzo(a,h)anthracene	53-70-3	270	270	<0.10	<0.10	<0.098	*<0.30	0.022J	0.058J	<0.12	<0.13	<0.52	<0.11	<0.12	<0.12	<0.53	**0.15**	0.036J	<0.13	0.038J	<0.11	<0.11	0.023J	**0.13**
benzo(g,h,i)perylene	191-24-2	180	180	<0.13	<0.13	<0.13	<2.1	0.091J	**0.20**	<0.16	<0.17	0.11J	0.048J	<0.16	<0.16	0.16J	**0.60**	**0.15**	<0.17	**0.14**	0.024J	<0.029J	0.089J	**0.41**

Appendix D4(c): Nonuse Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results - Semivolatile Organic Compounds

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Nonuse Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Nonuse Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-221 (4.0-5.0)	FROG-SS-221 (9.0-10.0)	FROG-SS-221 (14.0-15.0)	FROG-SS-222 (0.0-2.0)	FROG-SS-222 (4.0-4.5)	FROG-SS-222 (9.0-10.0)	FROG-SS-222 (10.5-11.5)	FROG-SS-223 (0.0-2.0)	FROG-SS-223 (4.0-5.0)	FROG-SS-223 (9.0-10.0)	FROG-SS-223 (10.5-11.5)
Semivolatile Organic Compounds														
benzaldehyde	100-52-7	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
phenol	108-95-2	20000	20000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-chloroethyl)ether	111-44-4	1.5	7.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-chlorophenol	95-57-8	4.4	4.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-methylphenol	95-48-7	17000	49000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-chloroisopropyl)ether	108-60-1	3000	3000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
acetophenone	98-86-2	350	970	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-dioxane	123-91-1	6.5	27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-nitrosodi-n-propylamine	621-64-7	0.025	0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-methylphenol / 4-methylphenol	108-39-4 / 106-44-5	10,000 / 17,000	10,000 / 49,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
hexachloroethane	67-72-1	56	56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
nitrobenzene	98-95-3	12	63	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
isophorone	78-59-1	10000	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-nitrophenol	88-75-5	2800	7800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-dimethylphenol	105-67-9	10000	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis (2-chloroethoxy)methane	111-91-1	10	29	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-dichlorophenol	120-83-2	2000	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
naphthalene	91-20-3	2500	2500	**0.064**	<0.040	<0.039	**0.20**	**0.67**	<0.040	<0.043	**0.070**	**0.042**	<0.041	<0.041
4-chloroaniline	106-47-8	0.42	1.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
hexachlorobutadiene	87-68-3	3400	3400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
caprolactam	105-60-2	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-chloro-m-cresol	59-50-7	720	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-methylnapthalene	91-57-6	25	100	0.054J	<0.24	<0.24	**0.30**	**0.38**	<0.24	<0.26	0.15J	0.048J	<0.24	<0.25
hexachlorocyclopentadiene	77-47-4	3300	3300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4,5-tetrachlorobenzene	95-94-3	270	270	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-trichlorophenol	88-06-2	10000	28000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-trichlorophenol	95-95-4	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-biphenyl	92-52-4	37	150	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-chloronaphthalene	91-58-7	6,000	17,000	<0.18	<0.20	<0.20	<0.18	<0.18	<0.20	<0.22	<0.17	<0.18	<0.20	<0.21
2-nitroaniline	88-74-4	0.011	0.044	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
dimethyl phthalate	131-11-3	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-dinitrotoluene	606-20-2	43	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
acenaphthylene	208-96-8	18,000	18,000	0.034J	<0.16	<0.16	0.045J	0.047J	<0.16	<0.17	<0.13	<0.14	<0.16	<0.16
3-nitroaniline	99-09-2	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
acenaphthene	83-32-9	4,700	4,700	0.071J	<0.16	<0.16	0.10J	**2.2**	<0.16	<0.17	0.056J	<0.14	<0.16	<0.16
2,4-dinitrophenol	51-28-5	6900	19000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-nitrophenol	100-02-7	600	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-dinitrotoluene	121-14-2	210	880	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
dibenzofuran	132-64-9	9000	12000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,4,6-tetrachlorophenol	58-90-2	190,000	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
diethyl phthalate	84-66-2	10,000	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
fluorene	86-73-7	3,800	3,800	0.070J	<0.20	<0.20	0.11J	**1.1**	<0.20	<0.22	0.044J	<0.18	<0.20	<0.21
4-chlorophenyl phenyl ether	7005-72-3	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-nitroaniline	100-01-6	3.3	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-dinitro-o-cresol	534-52-1	28	78	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix D4(c): Nonuse Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results - Semivolatile Organic Compounds

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Nonuse Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Nonuse Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-221 (4.0-5.0)	FROG-SS-221 (9.0-10.0)	FROG-SS-221 (14.0-15.0)	FROG-SS-222 (0.0-2.0)	FROG-SS-222 (4.0-4.5)	FROG-SS-222 (9.0-10.0)	FROG-SS-222 (10.5-11.5)	FROG-SS-223 (0.0-2.0)	FROG-SS-223 (4.0-5.0)	FROG-SS-223 (9.0-10.0)	FROG-SS-223 (10.5-11.5)
n-nitrosodiphenylamine / diphenylamine	86-30-6 / 122-39-4	300 / 30,000	1,500 / 30,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-bromophenyl phenyl ether	101-55-3	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
hexachlorobenzene	118-74-1	5.8	5.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pentachlorophenol	87-86-5	5000	5000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
atrazine	1912-24-9	0.3	0.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
phenanthrene	85-01-8	10000	10000	**0.74**	<0.12	<0.12	**0.79**	**11**	<0.12	0.037J	**0.13**	**0.12**	<0.12	<0.12
anthracene	120-12-7	350	350	**0.22**	<0.12	<0.12	**0.15**	**2.1**	<0.12	<0.13	<0.10	<0.10	<0.12	<0.12
carbazole	86-74-8	21	89	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
di-n-butyl phthalate	84-74-2	10000	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
fluoranthene	206-44-0	3200	3200	**1.1**	<0.12	<0.12	**0.82**	**12**	<0.12	0.027J	0.080J	**0.13**	<0.12	<0.12
pyrene	129-00-0	2200	2200	**0.92**	<0.12	<0.12	**0.63**	**7.0**	<0.12	0.024J	**0.11**	**0.13**	<0.12	<0.12
butyl benzyl phthalate	85-68-7	10000	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-3'-dichlorobenzidine	91-94-1	7700	17000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(a)anthracene	56-55-3	960	960	0.55	<0.12	<0.12	0.43	5.4	<0.12	<0.13	0.062J	0.14	<0.12	<0.12
chrysene	218-01-9	230	230	0.51	<0.12	<0.12	0.43	5.0	<0.12	<0.13	0.11	0.18	<0.12	<0.12
bis(2-ethylhexyl) phthalate	117-81-7	6300	6300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
di-n-octyl phthalate	117-84-0	10000	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
benzo(b)fluoranthene	205-99-2	170	170	**0.61**	<0.12	<0.12	**0.46**	**6.4**	<0.12	<0.13	0.074J	**0.33**	<0.12	<0.12
benzo(k)fluoranthene	207-08-9	610	610	**0.21**	<0.12	<0.12	**0.12**	**1.8**	<0.12	<0.13	<0.10	0.083J	<0.12	<0.12
benzo(a)pyrene	50-32-8	860	860	0.48	<0.16	<0.16	0.31	**4.8**	<0.16	<0.17	0.041J	0.26	<0.16	<0.16
indeno (1,2,3-cd) pyrene	193-39-5	190000	190000	**0.28**	<0.16	<0.16	**0.20**	**3.0**	<0.16	<0.17	0.044J	**0.25**	<0.16	<0.16
dibenzo(a,h)anthracene	53-70-3	270	270	0.072J	<0.12	<0.12	**0.054**	**0.62**	<0.12	<0.13	<0.10	0.052J	<0.12	<0.12
benzo(g,h,i)perylene	191-24-2	180	180	**0.27**	<0.16	<0.16	**0.20**	**2.9**	<0.16	<0.17	0.064J	**0.30**	<0.16	<0.16

Appendix D4(d): Nonuse Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results - Total Petroleum Hydrocarbons

All results are reported in mg/kg (ppm)	Medium-Specific Concentrations		FROG-SS-212 (5.0-7.0)
	Nonuse Aquifer Soil-to-Groundwater Residential	Nonuse Aquifer Soil-to-Groundwater Non-Residential	
Total Petroleum Hydrocarbons			
Gasoline Range Organics	-	-	**200**
Diesel Range Organics	-	-	**7,800**

Appendix D4(e): Nonuse Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results - Polychlorinated Biphenyls

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Nonuse Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Nonuse Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-101 (0-2)	FROG-SS-101 (3-5)	FROG-SS-102 (0-2)	FROG-SS-102 (19-21)	FROG-SS-103 (0-2)	FROG-SS-103 (28-30)	FROG-SS-104 (0-2)	FROG-SS-104 (10-11.5)	FROG-SS-105 (1-3)	FROG-SS-105 (13-15)	FROG-SS-111 (0-2)	FROG-SS-111 (10-11)	FROG-SS-112 (0-2)	FROG-SS-112 (7-9)	FROG-SS-113 (0-2)	FROG-SS-113 (6-8)	FROG-SS-114 (0-2)	FROG-SS-114 (17-19)	FROG-SS-115 (0-2)	FROG-SS-115 (6.5-8.5)	FROG-SS-116 (0-2)	FROG-SS-116 (18.5-20.5)
Polychlorinated Biphenyls																									
Aroclor 1016	12674-11-2	66	190	<0.0574	<0.0587	<0.0529	<0.0586	<0.0528	<0.0675	<0.0596	<0.0566	<0.0527	<0.0632	<0.0537	<0.0576	<0.0509	<0.0499	<0.0577	<0.0600	<0.0578	<0.0628	<0.0529	<0.0585	<0.0516	<0.0565
Aroclor 1221	11104-28-2	0.16	0.68	<0.0574	<0.0587	<0.0529	<0.0586	<0.0528	<0.0675	<0.0596	<0.0566	<0.0527	<0.0632	<0.0537	<0.0576	<0.0509	<0.0499	<0.0577	<0.0600	<0.0578	<0.0628	<0.0529	<0.0585	<0.0516	<0.0565
Aroclor 1232	11141-16-5	0.13	0.54	<0.0574	<0.0587	<0.0529	<0.0586	<0.0528	<0.0675	<0.0596	<0.0566	<0.0527	<0.0632	<0.0537	<0.0576	<0.0509	<0.0499	<0.0577	<0.0600	<0.0578	<0.0628	<0.0529	<0.0585	<0.0516	<0.0565
Aroclor 1242	53469-21-9	4	17	<0.0574	<0.0587	<0.0529	<0.0586	<0.0528	<0.0675	<0.0596	<0.0566	<0.0527	<0.0632	<0.0537	<0.0576	<0.0509	<0.0499	<0.0577	<0.0600	<0.0578	<0.0628	<0.0529	<0.0585	<0.0516	<0.0565
Aroclor 1248	12672-29-6	16	67	<0.0574	<0.0587	<0.0529	<0.0586	<0.0528	<0.0675	<0.0596	<0.0566	<0.0527	<0.0632	<0.0537	<0.0576	<0.0509	<0.0499	<0.0577	<0.0600	<0.0578	<0.0628	<0.0529	<0.0585	<0.0516	<0.0565
Aroclor 1254	11097-69-1	140	380	<0.0574	<0.0587	<0.0529	<0.0586	0.0114J	<0.0675	<0.0596	<0.0566	0.0454J	<0.0632	<0.0537	<0.0576	<0.0509	<0.0499	<0.0577	<0.0600	<0.0578	<0.0628	<0.0529	<0.0585	<0.0516	<0.0565
Aroclor 1260	11096-82-5	150	630	0.0354J	<0.0587	**0.0558**	<0.0586	<0.0528	<0.0675	<0.0596	<0.0566	0.0214J	<0.0632	<0.0537	<0.0576	<0.0509	<0.0499	<0.0577	<0.0600	<0.0578	<0.0628	0.0126J	<0.0585	**0.112**	<0.0565
Aroclor 1262	37324-23-5	-	-	<0.0574	<0.0587	<0.0529	<0.0586	<0.0528	<0.0675	<0.0596	<0.0566	<0.0527	<0.0632	<0.0537	<0.0576	<0.0509	<0.0499	<0.0577	<0.0600	<0.0578	<0.0628	<0.0529	<0.0585	<0.0516	<0.0565
Aroclor 1268	11100-14-4	-	-	0.0179J	<0.0587	<0.0529	<0.0586	<0.0528	<0.0675	<0.0596	<0.0566	<0.0527	<0.0632	<0.0537	<0.0576	<0.0509	<0.0499	<0.0577	<0.0600	<0.0578	<0.0628	0.00717J	<0.0585	**0.196**	<0.0565
Total PCBs	1336-36-3	9.8	9.8	0.0533J	<0.0587	**0.0558**	<0.0586	0.0114J	<0.0675	<0.0596	<0.0566	0.0668J	<0.0632	<0.0537	<0.0576	<0.0509	<0.0499	<0.0577	<0.0600	<0.0578	<0.0628	0.0198J	<0.0585	**0.308**	<0.0565

Appendix D4(e): Nonuse Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results - Polychlorinated Biphenyls

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Nonuse Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Nonuse Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-117 (0-2)	FROG-SS-DUP-103	FROG-SS-117 (11-13)	FROG-SS-118 (0-2)	FROG-SS-118 (10-12)	FROG-SS-DUP-102	FROG-SS-119 (0-0.5)	FROG-SS-119 (0.5-1)	FROG-SS-120 (0-2)	FROG-SS-120 (2-3.5)	FROG-SS-121 (0-2)	FROG-SS-121 (20-21.5)	FROG-SS-122 (1.5-3.5)	FROG-SS-122 (30-32)	FROG-SS-123 (1-3)	FROG-SS-123 (17-19)	FROG-SS-DUP-104	FROG-SS-124 (FLOOR)	FROG-SS-125 (FLOOR)	FROG-SS-126 (FLOOR)	FROG-SS-DUP-105	FROG-SS-127 (FLOOR)
Polychlorinated Biphenyls																									
Aroclor 1016	12674-11-2	66	190	<0.0513	<0.0495	<0.0558	<0.057	<0.0574	<0.0604	<0.0522	<0.0519	<0.0510	<0.0516	<0.0515	<0.0586	<0.0563	<0.0694	<0.0538	<0.0601	<0.0580	<0.0499	<0.0480	<0.0500	<0.0491	<0.0500
Aroclor 1221	11104-28-2	0.16	0.68	<0.0513	<0.0495	<0.0558	<0.057	<0.0574	<0.0604	<0.0522	<0.0519	<0.0510	<0.0516	<0.0515	<0.0586	<0.0563	<0.0694	<0.0538	<0.0601	<0.0580	<0.0499	<0.0480	<0.0500	<0.0491	<0.0500
Aroclor 1232	11141-16-5	0.13	0.54	<0.0513	<0.0495	<0.0558	<0.057	<0.0574	<0.0604	<0.0522	<0.0519	<0.0510	<0.0516	<0.0515	<0.0586	<0.0563	<0.0694	<0.0538	<0.0601	<0.0580	<0.0499	<0.0480	<0.0500	<0.0491	<0.0500
Aroclor 1242	53469-21-9	4	17	<0.0513	<0.0495	<0.0558	<0.057	<0.0574	<0.0604	0.00929J	0.0177J	<0.0510	<0.0516	<0.0515	<0.0586	<0.0563	<0.0694	<0.0538	<0.0601	<0.0580	<0.0499	<0.0480	0.0166J	0.0156J	<0.0500
Aroclor 1248	12672-29-6	16	67	<0.0513	<0.0495	<0.0558	<0.057	<0.0574	<0.0604	<0.0522	<0.0519	<0.0510	<0.0516	<0.0515	<0.0586	<0.0563	<0.0694	<0.0538	<0.0601	<0.0580	0.0242J	<0.0480	<0.0500	<0.0491	<0.0500
Aroclor 1254	11097-69-1	140	380	<0.0513	<0.0495	<0.0558	<0.057	<0.0574	<0.0604	0.0280J	0.0331J	<0.0510	**0.117**	<0.0515	<0.0586	<0.0563	<0.0694	<0.0538	<0.0601	<0.0580	0.0207J	<0.0480	0.0197J	0.0145J	<0.0500
Aroclor 1260	11096-82-5	150	630	<0.0513	0.0178J	**0.087**	<0.057	<0.0574	<0.0604	0.0257J	0.0198J	**0.102**	**0.133**	<0.0515	<0.0586	<0.0563	<0.0694	<0.0538	<0.0601	<0.0580	0.0283J	<0.0480	0.00941J	0.0108J	<0.0500
Aroclor 1262	37324-23-5	-	-	<0.0513	<0.0495	<0.0558	<0.057	<0.0574	<0.0604	<0.0522	<0.0519	<0.0510	<0.0516	<0.0515	<0.0586	<0.0563	<0.0694	<0.0538	<0.0601	<0.0580	<0.0499	<0.0480	<0.0500	<0.0491	<0.0500
Aroclor 1268	11100-14-4	-	-	<0.0513	0.0138J	**0.0845**	<0.057	<0.0574	<0.0604	<0.0522	<0.0519	**0.0992**	**0.0858**	<0.0515	<0.0586	<0.0563	<0.0694	<0.0538	<0.0601	<0.0580	<0.0499	<0.0480	<0.0500	<0.0491	<0.0500
Total PCBs	1336-36-3	9.8	9.8	<0.0513	0.0316J	**0.172**	<0.057	<0.0574	<0.0604	0.0630J	0.0706J	**0.201**	**0.336**	<0.0515	<0.0586	<0.0563	<0.0694	<0.0538	<0.0601	<0.0580	0.0732J	<0.0480	0.0457J	0.0409J	<0.0500

Appendix D4(f): Nonuse Aquifer Soil-to-Groundwater MSCs Compared to Soil Analytical Results - Dioxins and Furans

All results are reported in mg/kg (ppm)		Medium-Specific Concentrations: Nonuse Aquifer Soil-to-Groundwater Residential	Medium-Specific Concentrations: Nonuse Aquifer Soil-to-Groundwater Non-Residential	FROG-SS-128 (0-0.5)
Dioxins and Furans				
2,3,7,8-TCDF	51207-31-9	-	-	**0.0000030**
2,3,7,8-TCDD	1746-01-6	20	20	**0.0000014**
1,2,3,7,8-PeCDF	57117-41-6	-	-	<0.0000050
2,3,4,7,8-PeCDF	57117-31-4	-	-	<0.0000050
1,2,3,7,8-PeCDD	40321-76-4	-	-	**0.000015**
1,2,3,4,7,8-HxCDF	70648-26-9	-	-	**0.000028 P**
1,2,3,6,7,8-HxCDF	57117-44-9	-	-	**0.000015**
2,3,4,6,7,8-HxCDF	60851-34-5	-	-	**0.000017**
1,2,3,7,8,9-HxCDF	72918-21-9	-	-	<0.0000050
1,2,3,4,7,8-HxCDD	39227-28-6	-	-	**0.000029**
1,2,3,6,7,8-HxCDD	57653-85-7	-	-	**0.000045**
1,2,3,7,8,9-HxCDD	19408-74-3	-	-	**0.000066**
1,2,3,4,6,7,8-HpCDF	67562-39-4	-	-	**0.00035**
1,2,3,4,7,8,9-HpCDF	55673-89-7	-	-	**0.000024**
1,2,3,4,6,7,8-HpCDD	35822-46-9	-	-	**0.0014**
OCDF	39001-02-0	-	-	**0.00087**
OCDD	3268-87-9	-	-	**0.022**
Toxic Equivalency Quotient	-	-	-	**0.000063**

Grey results are not detected above the laboratory reporting limit

Bold results are detected above laboratory reporting limit

Yellow Highlighted results exceed the PADEP residential soil-to-groundwater numeric values at a nonuse aquifer (the higher of either the generic value or 100 times the groundwater MSC)

Orange Highlighted results exceed the PADEP non-residential soil-to-groundwater numeric values at a nonuse aquifer (the higher of either the generic value or 100 times the groundwater MSC)

Gray Highligted results have a method detection limit that exceeds at least one MSC

J: Estimated value. The target analyte concentration is below the laboratory reporting limit, but above the method detection limit

B: The analyte was detected above the reporting limit in the associated method blank.

NA: Not Analyzed

Values following < are the laboratory reporting limit

Values following *< are the method detection limit and shown where the laboratory reporting limit exceeds an MSC

All values are expressed in milligrams per kilogram (mg/kg) = 1 part per million (ppm)

Sample results are compared to PADEP MSCs for several scenarios that are provided in 25 Pa. Code Chapter 250, Administration of the Land Recycling Program.

Appendix E

Laboratory Analytical Reports

ANALYTICAL REPORT

Lab Number:	L2565410
Client:	USDOT/Volpe Center 220 Binney Street Cambridge, MA 02142
ATTN:	Jacob Klaybor
Phone:	(617) 494-3053
Project Name:	FROG SWITCH PHASE II
Project Number:	Not Specified
Report Date:	11/21/25

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2565410-01	FROG-SS-103 (0-2)	SOIL	CARLISLE, PA	10/15/25 14:45	10/15/25
L2565410-02	FROG-SS-103 (28-30)	SOIL	CARLISLE, PA	10/15/25 15:13	10/15/25
L2565410-03	FROG-SS-104 (0-2)	SOIL	CARLISLE, PA	10/15/25 13:43	10/15/25
L2565410-04	FROG-SS-104 (13-15)	SOIL	CARLISLE, PA	10/15/25 13:47	10/15/25
L2565410-05	FROG-SS-105 (1-3)	SOIL	CARLISLE, PA	10/15/25 11:52	10/15/25
L2565410-06	FROG-SS-105 (13-15)	SOIL	CARLISLE, PA	10/15/25 11:54	10/15/25
L2565410-07	FROG-SS-108 (1-3)	SOIL	CARLISLE, PA	10/15/25 09:50	10/15/25
L2565410-08	FROG-SS-108 (5.5-7.5)	SOIL	CARLISLE, PA	10/15/25 09:56	10/15/25
L2565410-09	FROG-SS-109 (2.5-4.5)	SOIL	CARLISLE, PA	10/15/25 09:58	10/15/25
L2565410-10	FROG-SS-109 (8-10)	SOIL	CARLISLE, PA	10/15/25 08:47	10/15/25
L2565410-11	FROG-SS-110 (1.5-3.5)	SOIL	CARLISLE, PA	10/15/25 10:46	10/15/25
L2565410-12	FROG-SS-110 (5-7)	SOIL	CARLISLE, PA	10/15/25 10:52	10/15/25
L2565410-13	FROG-SS-DUP-101	SOIL	CARLISLE, PA	10/15/25 00:00	10/15/25
L2565410-14	FROG-SS-FB-101	WATER	CARLISLE, PA	10/15/25 15:30	10/15/25
L2565410-15	FROG-SS-118 (0-2)	SOIL	CARLISLE, PA	10/16/25 14:20	10/16/25
L2565410-16	FROG-SS-118 (10-12)	SOIL	CARLISLE, PA	10/16/25 14:23	10/16/25
L2565410-17	FROG-SS-119 (0.5-1)	SOIL	CARLISLE, PA	10/16/25 13:45	10/16/25
L2565410-18	FROG-SS-111 (0-2)	SOIL	CARLISLE, PA	10/16/25 10:28	10/16/25
L2565410-19	FROG-SS-111 (11-13)	SOIL	CARLISLE, PA	10/16/25 10:30	10/16/25
L2565410-20	FROG-SS-112 (0-2)	SOIL	CARLISLE, PA	10/16/25 11:20	10/16/25
L2565410-21	FROG-SS-112 (7-9)	SOIL	CARLISLE, PA	10/16/25 11:22	10/16/25
L2565410-22	FROG-SS-120 (0-2)	SOIL	CARLISLE, PA	10/16/25 08:00	10/16/25
L2565410-23	FROG-SS-120 (2-3.5)	SOIL	CARLISLE, PA	10/16/25 08:05	10/16/25
L2565410-24	FROG-SS-121 (0-2)	SOIL	CARLISLE, PA	10/16/25 09:06	10/16/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2565410-25	FROG-SS-121 (22-24)	SOIL	CARLISLE, PA	10/16/25 09:16	10/16/25
L2565410-26	FROG-SS-DUP-102	SOIL	CARLISLE, PA	10/16/25 00:00	10/16/25
L2565410-27	FROG-SS-FB-102	WATER	CARLISLE, PA	10/16/25 13:10	10/16/25
L2565410-28	FROG-SS-101 (0-2)	SOIL	CARLISLE, PA	10/17/25 12:40	10/17/25
L2565410-29	FROG-SS-101 (3-5)	SOIL	CARLISLE, PA	10/17/25 12:41	10/17/25
L2565410-30	FROG-SS-102 (0-2)	SOIL	CARLISLE, PA	10/17/25 13:45	10/17/25
L2565410-31	FROG-SS-102 (19-21)	SOIL	CARLISLE, PA	10/17/25 13:51	10/17/25
L2565410-32	FROG-SS-115 (0-2)	SOIL	CARLISLE, PA	10/17/25 10:43	10/17/25
L2565410-33	FROG-SS-115 (7.5-9.5)	SOIL	CARLISLE, PA	10/17/25 10:45	10/17/25
L2565410-34	FROG-SS-116 (0-2)	SOIL	CARLISLE, PA	10/17/25 09:42	10/17/25
L2565410-35	FROG-SS-116 (18.5-20.5)	SOIL	CARLISLE, PA	10/17/25 09:44	10/17/25
L2565410-36	FROG-SS-117 (0-2)	SOIL	CARLISLE, PA	10/17/25 08:14	10/17/25
L2565410-37	FROG-SS-117 (11-13)	SOIL	CARLISLE, PA	10/17/25 08:22	10/17/25
L2565410-38	FROG-SS-DUP-103	SOIL	CARLISLE, PA	10/17/25 00:00	10/17/25
L2565410-39	FROG-SS-FB-103	WATER	CARLISLE, PA	10/17/25 12:10	10/17/25
L2565410-40	FROG-SS-114 (0-2)	SOIL	CARLISLE, PA	10/20/25 08:41	10/20/25
L2565410-41	FROG-SS-114 (17-19)	SOIL	CARLISLE, PA	10/20/25 08:44	10/20/25
L2565410-42	FROG-SS-113 (0-2)	SOIL	CARLISLE, PA	10/20/25 07:50	10/20/25
L2565410-43	FROG-SS-113 (6-8)	SOIL	CARLISLE, PA	10/20/25 07:52	10/20/25
L2565410-44	FROG-SS-119 (0-0.5)	SOIL	CARLISLE, PA	10/20/25 14:00	10/20/25
L2565410-45	FROG-SS-122 (1.5-3.5)	SOIL	CARLISLE, PA	10/20/25 10:45	10/20/25
L2565410-46	FROG-SS-122 (30-32)	SOIL	CARLISLE, PA	10/20/25 11:00	10/20/25
L2565410-47	FROG-SS-123 (1-3)	SOIL	CARLISLE, PA	10/20/25 12:35	10/20/25
L2565410-48	FROG-SS-123 (17-19)	SOIL	CARLISLE, PA	10/20/25 12:42	10/20/25
L2565410-49	FROG-SS-DUP-104	SOIL	CARLISLE, PA	10/20/25 00:00	10/20/25
L2565410-50	FROG-SS-FB-104	WATER	CARLISLE, PA	10/20/25 11:47	10/20/25
L2565410-51	FROG-SS-124 (FLOOR)	SOIL	CARLISLE, PA	10/21/25 10:15	10/21/25
L2565410-52	FROG-SS-125 (FLOOR)	SOIL	CARLISLE, PA	10/21/25 11:11	10/21/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2565410-53	FROG-SS-126 (FLOOR)	SOIL	CARLISLE, PA	10/21/25 12:30	10/21/25
L2565410-54	FROG-SS-127 (FLOOR)	SOIL	CARLISLE, PA	10/21/25 13:11	10/21/25
L2565410-55	FROG-SS-128 (FLOOR)	SOIL	CARLISLE, PA	10/21/25 13:34	10/21/25
L2565410-56	FROG-SS-DUP-105	SOIL	CARLISLE, PA	10/21/25 00:00	10/21/25
L2565410-57	FROG-SS-FB-105	WATER	CARLISLE, PA	10/21/25 12:05	10/21/25
L2565410-58	FROG-SS-EB	WATER	CARLISLE, PA	10/21/25 10:36	10/21/25

Project Name:	FROG SWITCH PHASE II	**Lab Number:**	L2565410
Project Number:	Not Specified	**Report Date:**	11/21/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	FROG SWITCH PHASE II	**Lab Number:**	L2565410
Project Number:	Not Specified	**Report Date:**	11/21/25

Case Narrative (continued)

Report Revision

November 21, 2025: This report includes the results of the following analyses:

L2565410-01 through -16, -18 through -39, -44 through -54, -56, -57, and -58: Trivalent Chromium

Additionally, all non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

L2565410-02: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (151%); however, the sample was not re-analyzed due to coelution with an obvious interference. A copy of the chromatogram is included as an attachment to this report.

L2565410-49: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (150%); however, the sample was not re-analyzed due to coelution with an obvious interference. A copy of the chromatogram is included as an attachment to this report.

The WG2134387-5 Method Blank associated with L2565410-01 and -03 through -13 has a concentration above the reporting limit for chlororform. Since the associated sample concentrations are non-detect to the RL for this target analyte, no corrective action is required. Any results detected below the reporting limit are qualified with a "B".

Semivolatile Organics

L2565410-17: The surrogate recoveries were outside the acceptance criteria for 2-fluorophenol (4%) and 2,4,6-tribromophenol (0%); however, re-extraction achieved similar results: 2-fluorophenol (11%) and 2,4,6-tribromophenol (0%). The results of both extractions are reported and all associated compounds are considered to have a potential bias.

L2565410-44D and -54D: The sample has elevated detection limits due to the dilution required by the sample matrix.

L2565410-54D: The surrogate recoveries were outside the acceptance criteria for 2-fluorophenol (15%), phenol-d6 (9%), nitrobenzene-d5 (19%), 2-fluorobiphenyl (25%) and 2,4,6-tribromophenol (0%); however,

Case Narrative (continued)

re-extraction achieved similar results: 2-fluorophenol (11%), nitrobenzene-d5 (15%), 2-fluorobiphenyl (16%) and 4-terphenyl-d14 (15%). The results of both extractions are reported and all associated compounds are considered to have a potential bias.

PCBs

L2565410-54: The internal standard (IS) response for 1-bromo-2-nitrobenzene (788%) was above the acceptance criteria on column B; however, the sample was not re-analyzed due to obvious interferences. The surrogate recoveries are outside the method acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (11%) and decachlorobiphenyl (9%) due to interference with the Internal Standard.

Total Metals

L2565410-01 through -13, -15 through -26, -28 through -38, -44 through -49, -51, -53, -54 and -56: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by the sample matrix.

The WG2131460-3/-4 MS/MSD recoveries performed on L2565410-04 do not apply for aluminum (471%/0%), iron (5020%/0%), and manganese (0%/0%) because the sample concentrations are greater than four times the spike amounts added.

The WG2131460-3/-4 MS/MSD recoveries performed on L2565410-04 are outside the acceptance criteria for antimony (31%/26%), arsenic (MSD at 19%), chromium (MSD at 70%), magnesium (71%0%), potassium (MSD at 55%), selenium (56%/42%), and zinc (MSD at 73%). A post digestion spike was performed and was within acceptance criteria.

The WG2131460-3/-4 MS/MSD RPDs performed on L2565410-04 are above the acceptance criteria for aluminum (51%), arsenic (56%), iron (32%), magnesium (37%), manganese (24%), potassium (26%) and selenium (27%).

The WG2131466-7/-8 MS/MSD recoveries performed on L2565410-25 do not apply for aluminum (2140%/2030%), calcium (50%/0%), iron (9100%/0%), magnesium (MSD at 57%), and manganese (2760%/0%) because the sample concentrations are greater than four times the spike amounts added.

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410
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Case Narrative (continued)

The WG2131466-7/-8 MS/MSD recoveries performed on L2565410-25 are outside the acceptance criteria for antimony (31%/26%), arsenic (MSD at 55%), barium (MSD at 60%), cobalt (MSD at 70%), copper (209%/37%), nickel (MSD at 73%), potassium (148%/144%), selenium (48%/48%), and thallium (72%). A post digestion spike was performed and was within acceptance criteria.

The WG2131466-7/-8 MS/MSD RPDs performed on L2565410-25 are above the acceptance criteria for copper (58%), iron (27%) and manganese (85%).

The WG2131925-3/-4 MS/MSD recoveries performed on L2565410-35 do not apply for aluminum (670%/239%), iron (0%/0%), and manganese (49%/431%) because the sample concentrations are greater than four times the spike amounts added.

The WG2131925-3/-4 MS recoveries performed on L2565410-35 are outside the acceptance criteria for antimony (31%/28%), arsenic (71%/71%), calcium (126%/143%), chromium (MS at 71%), copper (MSD at 74%), magnesium (MS at 142%), selenium (64%/56%), and vanadium (74%/66%). A post digestion spike was performed and was within acceptance criteria.

The WG2133427-7/-8 MS/MSD recoveries performed on L2565410-46 do not apply for aluminum (0%/313%), calcium (1620%/0%), iron (0%/0%), and manganese (2750%/2660%) because the sample concentrations are greater than four times the spike amounts added.

The WG2133427-8 MSD recoveries performed on L2565410-46 are outside the acceptance criteria for antimony (20%), arsenic (10%), barium (294%), and selenium (32%). A post digestion spike was performed and was within acceptance criteria.

The WG2133427-7/-8 MS/MSD RPD performed on L2565410-46 is above the acceptance criteria for calcium (50%).

The WG2133982-7/-8 MS/MSD recoveries performed on L2565410-52 do not apply for aluminum (0%/0%), chromium (209%/25%), copper (51%), iron (2660%/0%), magnesium (0%/0%), manganese (1220%/456%), nickel (0%/0%), and sodium (MS at 126%) because the sample concentrations are greater than four times the spike amounts added.

The WG2133982-7/-8 MS/MSD recoveries performed on L2565410-52 are outside the acceptance criteria for antimony (0%/42%), cobalt (MSD at 73%), lead (153%/151%), potassium (141%/139%), silver (MS at 126%),

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410
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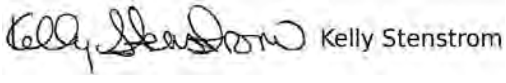
Case Narrative (continued)

and zinc (MSD at 63%). A post digestion spike was performed and was within acceptance criteria.
The WG2133982-7/-8 MS/MSD recoveries performed on L2565410-52 do not apply for aluminum (0%/0%), chromium (209%/25%), iron (2660%/0%), magnesium (0%/0%), manganese (1220%/456%) and nickel (0%/0%) because the sample concentrations are greater than four times the spike amounts added.
The WG2133982-7/-8 MS/MSD recoveries performed on L2565410-52 are outside the acceptance criteria for antimony (0%/42%), cobalt (MSD at 73%), lead (153%/73%), potassium (141%/139%), silver (MS at 126%), and zinc (MSD at 63%). A post digestion spike was performed and was within acceptance criteria.

Chromium, Hexavalent
The WG2130460-5 Soluble MS recovery performed on L2565410-11 was outside the acceptance criteria for chromium, hexavalent (59%). This has been attributed to matrix interference. A post-spike was performed with a recovery of 99%.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Kelly Stenstrom

Title: Technical Director/Representative Date: 11/21/25

ORGANICS

VOLATILES

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-01 Date Collected: 10/15/25 14:45

Client ID: FROG-SS-103 (0-2) Date Received: 10/15/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260D

Analytical Date: 10/28/25 16:27

Analyst: AJK

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.013	0.0012	1
Chloromethane	ND		mg/kg	0.0051	0.0012	1
Vinyl chloride	ND		mg/kg	0.0013	0.00043	1
Bromomethane	ND		mg/kg	0.0026	0.00074	1
Chloroethane	ND		mg/kg	0.0026	0.00058	1
Trichlorofluoromethane	ND		mg/kg	0.0051	0.00089	1
1,1-Dichloroethene	ND		mg/kg	0.0013	0.00030	1
Carbon disulfide	ND		mg/kg	0.013	0.0058	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0051	0.00088	1
Methylene chloride	ND		mg/kg	0.0064	0.0029	1
Acetone	ND		mg/kg	0.032	0.013	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0019	0.00017	1
Methyl Acetate	ND		mg/kg	0.0051	0.0012	1
Methyl tert butyl ether	ND		mg/kg	0.0026	0.00026	1
1,1-Dichloroethane	ND		mg/kg	0.0013	0.00018	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0013	0.00022	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0013	0.00017	1
Cyclohexane	ND		mg/kg	0.013	0.00069	1
Bromochloromethane	ND		mg/kg	0.0026	0.00026	1
Chloroform	0.00031	JB	mg/kg	0.0019	0.00018	1
Carbon tetrachloride	ND		mg/kg	0.0013	0.00029	1
1,1,1-Trichloroethane	ND		mg/kg	0.00064	0.00021	1
2-Butanone	ND		mg/kg	0.013	0.0028	1
Benzene	ND		mg/kg	0.00064	0.00021	1
1,2-Dichloroethane	ND		mg/kg	0.0013	0.00033	1
Methyl cyclohexane	ND		mg/kg	0.0051	0.00077	1
Trichloroethene	ND		mg/kg	0.00064	0.00017	1
1,2-Dichloropropane	ND		mg/kg	0.0013	0.00016	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-01 Date Collected: 10/15/25 14:45

Client ID: FROG-SS-103 (0-2) Date Received: 10/15/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00064	0.00014	1
1,4-Dioxane	ND		mg/kg	0.10	0.045	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00064	0.00020	1
Toluene	ND		mg/kg	0.0013	0.00069	1
4-Methyl-2-pentanone	ND		mg/kg	0.013	0.0016	1
Tetrachloroethene	ND		mg/kg	0.00064	0.00025	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0013	0.00035	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00064	0.00020	1
1,1,2-Trichloroethane	ND		mg/kg	0.0013	0.00034	1
Dibromochloromethane	ND		mg/kg	0.0013	0.00018	1
1,2-Dibromoethane	ND		mg/kg	0.00064	0.00037	1
2-Hexanone	ND		mg/kg	0.013	0.0015	1
Chlorobenzene	ND		mg/kg	0.00064	0.00016	1
Ethylbenzene	ND		mg/kg	0.0013	0.00018	1
p/m-Xylene	ND		mg/kg	0.0026	0.00072	1
o-Xylene	ND		mg/kg	0.0013	0.00037	1
Xylenes, Total	ND		mg/kg	0.0013	0.00037	1
Styrene	ND		mg/kg	0.0013	0.00025	1
Bromoform	ND		mg/kg	0.0051	0.00031	1
Isopropylbenzene	ND		mg/kg	0.0013	0.00014	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00064	0.00021	1
1,3-Dichlorobenzene	ND		mg/kg	0.0026	0.00019	1
1,4-Dichlorobenzene	ND		mg/kg	0.0026	0.00022	1
1,2-Dichlorobenzene	ND		mg/kg	0.0026	0.00018	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0038	0.0013	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0026	0.00035	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0026	0.00041	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	**138**	Q	70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	**137**	Q	70-130

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-02 Date Collected: 10/15/25 15:13

Client ID: FROG-SS-103 (28-30) Date Received: 10/15/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260D

Analytical Date: 10/29/25 13:00

Analyst: AJK

Percent Solids: 70%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.014	0.0013	1
Chloromethane	ND		mg/kg	0.0056	0.0013	1
Vinyl chloride	ND		mg/kg	0.0014	0.00047	1
Bromomethane	ND		mg/kg	0.0028	0.00081	1
Chloroethane	ND		mg/kg	0.0028	0.00063	1
Trichlorofluoromethane	ND		mg/kg	0.0056	0.00097	1
1,1-Dichloroethene	ND		mg/kg	0.0014	0.00033	1
Carbon disulfide	ND		mg/kg	0.014	0.0064	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0056	0.00097	1
Methylene chloride	ND		mg/kg	0.0070	0.0032	1
Acetone	0.023	J	mg/kg	0.035	0.014	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0021	0.00019	1
Methyl Acetate	ND		mg/kg	0.0056	0.0013	1
Methyl tert butyl ether	ND		mg/kg	0.0028	0.00028	1
1,1-Dichloroethane	ND		mg/kg	0.0014	0.00020	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0014	0.00024	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0014	0.00019	1
Cyclohexane	ND		mg/kg	0.014	0.00076	1
Bromochloromethane	ND		mg/kg	0.0028	0.00029	1
Chloroform	ND		mg/kg	0.0021	0.00020	1
Carbon tetrachloride	ND		mg/kg	0.0014	0.00032	1
1,1,1-Trichloroethane	ND		mg/kg	0.00070	0.00023	1
2-Butanone	0.0056	J	mg/kg	0.014	0.0031	1
Benzene	0.00061	J	mg/kg	0.00070	0.00023	1
1,2-Dichloroethane	ND		mg/kg	0.0014	0.00036	1
Methyl cyclohexane	0.0022	J	mg/kg	0.0056	0.00084	1
Trichloroethene	ND		mg/kg	0.00070	0.00019	1
1,2-Dichloropropane	ND		mg/kg	0.0014	0.00018	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-02 Date Collected: 10/15/25 15:13

Client ID: FROG-SS-103 (28-30) Date Received: 10/15/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00070	0.00015	1
1,4-Dioxane	ND		mg/kg	0.11	0.049	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00070	0.00022	1
Toluene	ND		mg/kg	0.0014	0.00076	1
4-Methyl-2-pentanone	ND		mg/kg	0.014	0.0018	1
Tetrachloroethene	0.00032	J	mg/kg	0.00070	0.00027	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0014	0.00038	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00070	0.00022	1
1,1,2-Trichloroethane	ND		mg/kg	0.0014	0.00037	1
Dibromochloromethane	ND		mg/kg	0.0014	0.00020	1
1,2-Dibromoethane	ND		mg/kg	0.00070	0.00041	1
2-Hexanone	ND		mg/kg	0.014	0.0016	1
Chlorobenzene	ND		mg/kg	0.00070	0.00018	1
Ethylbenzene	0.00057	J	mg/kg	0.0014	0.00020	1
p/m-Xylene	0.0010	J	mg/kg	0.0028	0.00078	1
o-Xylene	0.00047	J	mg/kg	0.0014	0.00041	1
Xylenes, Total	0.0015	J	mg/kg	0.0014	0.00041	1
Styrene	ND		mg/kg	0.0014	0.00027	1
Bromoform	ND		mg/kg	0.0056	0.00034	1
Isopropylbenzene	0.00042	J	mg/kg	0.0014	0.00015	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00070	0.00023	1
1,3-Dichlorobenzene	ND		mg/kg	0.0028	0.00021	1
1,4-Dichlorobenzene	ND		mg/kg	0.0028	0.00024	1
1,2-Dichlorobenzene	ND		mg/kg	0.0028	0.00020	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0042	0.0014	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0028	0.00038	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0028	0.00045	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	**151**	Q	70-130
Dibromofluoromethane	110		70-130

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-03 Date Collected: 10/15/25 13:43

Client ID: FROG-SS-104 (0-2) Date Received: 10/15/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260D

Analytical Date: 10/28/25 17:21

Analyst: AJK

Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.012	0.0010	1
Chloromethane	ND		mg/kg	0.0046	0.0011	1
Vinyl chloride	ND		mg/kg	0.0012	0.00038	1
Bromomethane	ND		mg/kg	0.0023	0.00067	1
Chloroethane	ND		mg/kg	0.0023	0.00052	1
Trichlorofluoromethane	ND		mg/kg	0.0046	0.00080	1
1,1-Dichloroethene	ND		mg/kg	0.0012	0.00027	1
Carbon disulfide	ND		mg/kg	0.012	0.0052	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0046	0.00080	1
Methylene chloride	ND		mg/kg	0.0058	0.0026	1
Acetone	ND		mg/kg	0.029	0.012	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0017	0.00016	1
Methyl Acetate	ND		mg/kg	0.0046	0.0011	1
Methyl tert butyl ether	ND		mg/kg	0.0023	0.00023	1
1,1-Dichloroethane	ND		mg/kg	0.0012	0.00017	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0012	0.00020	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0012	0.00016	1
Cyclohexane	ND		mg/kg	0.012	0.00063	1
Bromochloromethane	ND		mg/kg	0.0023	0.00024	1
Chloroform	0.00025	JB	mg/kg	0.0017	0.00016	1
Carbon tetrachloride	ND		mg/kg	0.0012	0.00026	1
1,1,1-Trichloroethane	ND		mg/kg	0.00058	0.00019	1
2-Butanone	ND		mg/kg	0.012	0.0026	1
Benzene	ND		mg/kg	0.00058	0.00019	1
1,2-Dichloroethane	ND		mg/kg	0.0012	0.00030	1
Methyl cyclohexane	ND		mg/kg	0.0046	0.00069	1
Trichloroethene	ND		mg/kg	0.00058	0.00016	1
1,2-Dichloropropane	ND		mg/kg	0.0012	0.00014	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-03 Date Collected: 10/15/25 13:43

Client ID: FROG-SS-104 (0-2) Date Received: 10/15/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00058	0.00012	1
1,4-Dioxane	ND		mg/kg	0.092	0.040	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00058	0.00018	1
Toluene	ND		mg/kg	0.0012	0.00062	1
4-Methyl-2-pentanone	ND		mg/kg	0.012	0.0015	1
Tetrachloroethene	ND		mg/kg	0.00058	0.00022	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0012	0.00031	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00058	0.00018	1
1,1,2-Trichloroethane	ND		mg/kg	0.0012	0.00031	1
Dibromochloromethane	ND		mg/kg	0.0012	0.00016	1
1,2-Dibromoethane	ND		mg/kg	0.00058	0.00034	1
2-Hexanone	ND		mg/kg	0.012	0.0014	1
Chlorobenzene	ND		mg/kg	0.00058	0.00015	1
Ethylbenzene	ND		mg/kg	0.0012	0.00016	1
p/m-Xylene	ND		mg/kg	0.0023	0.00064	1
o-Xylene	ND		mg/kg	0.0012	0.00034	1
Xylenes, Total	ND		mg/kg	0.0012	0.00034	1
Styrene	ND		mg/kg	0.0012	0.00022	1
Bromoform	ND		mg/kg	0.0046	0.00028	1
Isopropylbenzene	ND		mg/kg	0.0012	0.00012	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00058	0.00019	1
1,3-Dichlorobenzene	ND		mg/kg	0.0023	0.00017	1
1,4-Dichlorobenzene	ND		mg/kg	0.0023	0.00020	1
1,2-Dichlorobenzene	ND		mg/kg	0.0023	0.00016	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0034	0.0011	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0023	0.00031	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0023	0.00037	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	123		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	121		70-130

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-04 Date Collected: 10/15/25 13:47

Client ID: FROG-SS-104 (13-15) Date Received: 10/15/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260D

Analytical Date: 10/28/25 17:48

Analyst: AJK

Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.010	0.00095	1
Chloromethane	ND		mg/kg	0.0041	0.00097	1
Vinyl chloride	ND		mg/kg	0.0010	0.00035	1
Bromomethane	ND		mg/kg	0.0021	0.00060	1
Chloroethane	ND		mg/kg	0.0021	0.00047	1
Trichlorofluoromethane	ND		mg/kg	0.0041	0.00072	1
1,1-Dichloroethene	ND		mg/kg	0.0010	0.00025	1
Carbon disulfide	ND		mg/kg	0.010	0.0047	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0041	0.00072	1
Methylene chloride	ND		mg/kg	0.0052	0.0024	1
Acetone	ND		mg/kg	0.026	0.010	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0016	0.00014	1
Methyl Acetate	ND		mg/kg	0.0041	0.00098	1
Methyl tert butyl ether	ND		mg/kg	0.0021	0.00021	1
1,1-Dichloroethane	ND		mg/kg	0.0010	0.00015	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0010	0.00018	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0010	0.00014	1
Cyclohexane	ND		mg/kg	0.010	0.00056	1
Bromochloromethane	ND		mg/kg	0.0021	0.00021	1
Chloroform	0.00023	JB	mg/kg	0.0016	0.00014	1
Carbon tetrachloride	ND		mg/kg	0.0010	0.00024	1
1,1,1-Trichloroethane	ND		mg/kg	0.00052	0.00017	1
2-Butanone	ND		mg/kg	0.010	0.0023	1
Benzene	ND		mg/kg	0.00052	0.00017	1
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00027	1
Methyl cyclohexane	ND		mg/kg	0.0041	0.00062	1
Trichloroethene	ND		mg/kg	0.00052	0.00014	1
1,2-Dichloropropane	ND		mg/kg	0.0010	0.00013	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-04 Date Collected: 10/15/25 13:47

Client ID: FROG-SS-104 (13-15) Date Received: 10/15/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00052	0.00011	1
1,4-Dioxane	ND		mg/kg	0.083	0.036	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00052	0.00016	1
Toluene	ND		mg/kg	0.0010	0.00056	1
4-Methyl-2-pentanone	ND		mg/kg	0.010	0.0013	1
Tetrachloroethene	ND		mg/kg	0.00052	0.00020	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00028	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00052	0.00016	1
1,1,2-Trichloroethane	ND		mg/kg	0.0010	0.00028	1
Dibromochloromethane	ND		mg/kg	0.0010	0.00014	1
1,2-Dibromoethane	ND		mg/kg	0.00052	0.00030	1
2-Hexanone	ND		mg/kg	0.010	0.0012	1
Chlorobenzene	ND		mg/kg	0.00052	0.00013	1
Ethylbenzene	ND		mg/kg	0.0010	0.00015	1
p/m-Xylene	ND		mg/kg	0.0021	0.00058	1
o-Xylene	ND		mg/kg	0.0010	0.00030	1
Xylenes, Total	ND		mg/kg	0.0010	0.00030	1
Styrene	ND		mg/kg	0.0010	0.00020	1
Bromoform	ND		mg/kg	0.0041	0.00026	1
Isopropylbenzene	ND		mg/kg	0.0010	0.00011	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00052	0.00017	1
1,3-Dichlorobenzene	ND		mg/kg	0.0021	0.00015	1
1,4-Dichlorobenzene	ND		mg/kg	0.0021	0.00018	1
1,2-Dichlorobenzene	ND		mg/kg	0.0021	0.00015	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0031	0.0010	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0021	0.00028	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0021	0.00033	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	119		70-130

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-05 Date Collected: 10/15/25 11:52

Client ID: FROG-SS-105 (1-3) Date Received: 10/15/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260D

Analytical Date: 10/28/25 18:15

Analyst: AJK

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.011	0.0010	1
Chloromethane	ND		mg/kg	0.0044	0.0010	1
Vinyl chloride	ND		mg/kg	0.0011	0.00036	1
Bromomethane	ND		mg/kg	0.0022	0.00063	1
Chloroethane	ND		mg/kg	0.0022	0.00049	1
Trichlorofluoromethane	ND		mg/kg	0.0044	0.00076	1
1,1-Dichloroethene	ND		mg/kg	0.0011	0.00026	1
Carbon disulfide	ND		mg/kg	0.011	0.0050	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0044	0.00076	1
Methylene chloride	ND		mg/kg	0.0054	0.0025	1
Acetone	0.064		mg/kg	0.027	0.011	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0016	0.00015	1
Methyl Acetate	0.0074		mg/kg	0.0044	0.0010	1
Methyl tert butyl ether	ND		mg/kg	0.0022	0.00022	1
1,1-Dichloroethane	ND		mg/kg	0.0011	0.00016	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0011	0.00019	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0011	0.00015	1
Cyclohexane	0.0012	J	mg/kg	0.011	0.00059	1
Bromochloromethane	ND		mg/kg	0.0022	0.00022	1
Chloroform	0.00024	JB	mg/kg	0.0016	0.00015	1
Carbon tetrachloride	ND		mg/kg	0.0011	0.00025	1
1,1,1-Trichloroethane	ND		mg/kg	0.00054	0.00018	1
2-Butanone	0.020		mg/kg	0.011	0.0024	1
Benzene	0.0024		mg/kg	0.00054	0.00018	1
1,2-Dichloroethane	ND		mg/kg	0.0011	0.00028	1
Methyl cyclohexane	0.0048		mg/kg	0.0044	0.00066	1
Trichloroethene	ND		mg/kg	0.00054	0.00015	1
1,2-Dichloropropane	ND		mg/kg	0.0011	0.00014	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-05 Date Collected: 10/15/25 11:52

Client ID: FROG-SS-105 (1-3) Date Received: 10/15/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00054	0.00012	1
1,4-Dioxane	ND		mg/kg	0.087	0.038	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00054	0.00017	1
Toluene	0.0022		mg/kg	0.0011	0.00059	1
4-Methyl-2-pentanone	ND		mg/kg	0.011	0.0014	1
Tetrachloroethene	ND		mg/kg	0.00054	0.00021	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0011	0.00030	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00054	0.00017	1
1,1,2-Trichloroethane	ND		mg/kg	0.0011	0.00029	1
Dibromochloromethane	ND		mg/kg	0.0011	0.00015	1
1,2-Dibromoethane	ND		mg/kg	0.00054	0.00032	1
2-Hexanone	ND		mg/kg	0.011	0.0013	1
Chlorobenzene	ND		mg/kg	0.00054	0.00014	1
Ethylbenzene	0.0017		mg/kg	0.0011	0.00015	1
p/m-Xylene	0.0046		mg/kg	0.0022	0.00061	1
o-Xylene	0.0011		mg/kg	0.0011	0.00032	1
Xylenes, Total	0.0057		mg/kg	0.0011	0.00032	1
Styrene	ND		mg/kg	0.0011	0.00021	1
Bromoform	ND		mg/kg	0.0044	0.00027	1
Isopropylbenzene	0.00044	J	mg/kg	0.0011	0.00012	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00054	0.00018	1
1,3-Dichlorobenzene	ND		mg/kg	0.0022	0.00016	1
1,4-Dichlorobenzene	ND		mg/kg	0.0022	0.00019	1
1,2-Dichlorobenzene	ND		mg/kg	0.0022	0.00016	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0033	0.0011	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0022	0.00030	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0022	0.00035	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	110		70-130

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-06 Date Collected: 10/15/25 11:54

Client ID: FROG-SS-105 (13-15) Date Received: 10/15/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260D

Analytical Date: 10/28/25 18:43

Analyst: AJK

Percent Solids: 74%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.013	0.0012	1
Chloromethane	ND		mg/kg	0.0053	0.0012	1
Vinyl chloride	ND		mg/kg	0.0013	0.00044	1
Bromomethane	ND		mg/kg	0.0026	0.00077	1
Chloroethane	ND		mg/kg	0.0026	0.00060	1
Trichlorofluoromethane	ND		mg/kg	0.0053	0.00092	1
1,1-Dichloroethene	ND		mg/kg	0.0013	0.00032	1
Carbon disulfide	ND		mg/kg	0.013	0.0060	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0053	0.00092	1
Methylene chloride	ND		mg/kg	0.0066	0.0030	1
Acetone	0.021	J	mg/kg	0.033	0.013	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0020	0.00018	1
Methyl Acetate	ND		mg/kg	0.0053	0.0012	1
Methyl tert butyl ether	ND		mg/kg	0.0026	0.00027	1
1,1-Dichloroethane	ND		mg/kg	0.0013	0.00019	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0013	0.00023	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0013	0.00018	1
Cyclohexane	ND		mg/kg	0.013	0.00072	1
Bromochloromethane	ND		mg/kg	0.0026	0.00027	1
Chloroform	0.00026	JB	mg/kg	0.0020	0.00018	1
Carbon tetrachloride	ND		mg/kg	0.0013	0.00030	1
1,1,1-Trichloroethane	ND		mg/kg	0.00066	0.00022	1
2-Butanone	ND		mg/kg	0.013	0.0029	1
Benzene	0.00027	J	mg/kg	0.00066	0.00022	1
1,2-Dichloroethane	ND		mg/kg	0.0013	0.00034	1
Methyl cyclohexane	0.0024	J	mg/kg	0.0053	0.00080	1
Trichloroethene	ND		mg/kg	0.00066	0.00018	1
1,2-Dichloropropane	ND		mg/kg	0.0013	0.00016	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-06 Date Collected: 10/15/25 11:54

Client ID: FROG-SS-105 (13-15) Date Received: 10/15/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00066	0.00014	1
1,4-Dioxane	ND		mg/kg	0.10	0.046	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00066	0.00021	1
Toluene	ND		mg/kg	0.0013	0.00072	1
4-Methyl-2-pentanone	ND		mg/kg	0.013	0.0017	1
Tetrachloroethene	ND		mg/kg	0.00066	0.00026	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0013	0.00036	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00066	0.00021	1
1,1,2-Trichloroethane	ND		mg/kg	0.0013	0.00035	1
Dibromochloromethane	ND		mg/kg	0.0013	0.00018	1
1,2-Dibromoethane	ND		mg/kg	0.00066	0.00039	1
2-Hexanone	ND		mg/kg	0.013	0.0016	1
Chlorobenzene	ND		mg/kg	0.00066	0.00017	1
Ethylbenzene	ND		mg/kg	0.0013	0.00019	1
p/m-Xylene	ND		mg/kg	0.0026	0.00074	1
o-Xylene	ND		mg/kg	0.0013	0.00038	1
Xylenes, Total	ND		mg/kg	0.0013	0.00038	1
Styrene	ND		mg/kg	0.0013	0.00026	1
Bromoform	ND		mg/kg	0.0053	0.00032	1
Isopropylbenzene	0.00055	J	mg/kg	0.0013	0.00014	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00066	0.00022	1
1,3-Dichlorobenzene	ND		mg/kg	0.0026	0.00020	1
1,4-Dichlorobenzene	ND		mg/kg	0.0026	0.00023	1
1,2-Dichlorobenzene	ND		mg/kg	0.0026	0.00019	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0040	0.0013	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0026	0.00036	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0026	0.00043	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	114		70-130

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-07 Date Collected: 10/15/25 09:50

Client ID: FROG-SS-108 (1-3) Date Received: 10/15/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260D

Analytical Date: 10/28/25 19:10

Analyst: AJK

Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.012	0.0011	1
Chloromethane	ND		mg/kg	0.0048	0.0011	1
Vinyl chloride	ND		mg/kg	0.0012	0.00041	1
Bromomethane	ND		mg/kg	0.0024	0.00070	1
Chloroethane	ND		mg/kg	0.0024	0.00055	1
Trichlorofluoromethane	ND		mg/kg	0.0048	0.00084	1
1,1-Dichloroethene	ND		mg/kg	0.0012	0.00029	1
Carbon disulfide	ND		mg/kg	0.012	0.0055	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0048	0.00084	1
Methylene chloride	ND		mg/kg	0.0061	0.0028	1
Acetone	ND		mg/kg	0.030	0.012	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0018	0.00017	1
Methyl Acetate	ND		mg/kg	0.0048	0.0012	1
Methyl tert butyl ether	ND		mg/kg	0.0024	0.00024	1
1,1-Dichloroethane	ND		mg/kg	0.0012	0.00018	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0012	0.00021	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0012	0.00017	1
Cyclohexane	ND		mg/kg	0.012	0.00066	1
Bromochloromethane	ND		mg/kg	0.0024	0.00025	1
Chloroform	0.00022	JB	mg/kg	0.0018	0.00017	1
Carbon tetrachloride	ND		mg/kg	0.0012	0.00028	1
1,1,1-Trichloroethane	ND		mg/kg	0.00061	0.00020	1
2-Butanone	ND		mg/kg	0.012	0.0027	1
Benzene	ND		mg/kg	0.00061	0.00020	1
1,2-Dichloroethane	ND		mg/kg	0.0012	0.00031	1
Methyl cyclohexane	ND		mg/kg	0.0048	0.00073	1
Trichloroethene	ND		mg/kg	0.00061	0.00017	1
1,2-Dichloropropane	ND		mg/kg	0.0012	0.00015	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-07 Date Collected: 10/15/25 09:50

Client ID: FROG-SS-108 (1-3) Date Received: 10/15/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00061	0.00013	1
1,4-Dioxane	ND		mg/kg	0.097	0.043	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00061	0.00019	1
Toluene	ND		mg/kg	0.0012	0.00066	1
4-Methyl-2-pentanone	ND		mg/kg	0.012	0.0016	1
Tetrachloroethene	ND		mg/kg	0.00061	0.00024	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0012	0.00033	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00061	0.00019	1
1,1,2-Trichloroethane	ND		mg/kg	0.0012	0.00032	1
Dibromochloromethane	ND		mg/kg	0.0012	0.00017	1
1,2-Dibromoethane	ND		mg/kg	0.00061	0.00036	1
2-Hexanone	ND		mg/kg	0.012	0.0014	1
Chlorobenzene	ND		mg/kg	0.00061	0.00015	1
Ethylbenzene	ND		mg/kg	0.0012	0.00017	1
p/m-Xylene	ND		mg/kg	0.0024	0.00068	1
o-Xylene	ND		mg/kg	0.0012	0.00035	1
Xylenes, Total	ND		mg/kg	0.0012	0.00035	1
Styrene	ND		mg/kg	0.0012	0.00024	1
Bromoform	ND		mg/kg	0.0048	0.00030	1
Isopropylbenzene	ND		mg/kg	0.0012	0.00013	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00061	0.00020	1
1,3-Dichlorobenzene	ND		mg/kg	0.0024	0.00018	1
1,4-Dichlorobenzene	ND		mg/kg	0.0024	0.00021	1
1,2-Dichlorobenzene	ND		mg/kg	0.0024	0.00017	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0036	0.0012	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0024	0.00033	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0024	0.00039	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	114		70-130

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-08
Client ID: FROG-SS-108 (5.5-7.5)
Sample Location: CARLISLE, PA
Date Collected: 10/15/25 09:56
Date Received: 10/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 10/28/25 19:38
Analyst: AJK
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.013	0.0012	1
Chloromethane	ND		mg/kg	0.0054	0.0012	1
Vinyl chloride	ND		mg/kg	0.0013	0.00045	1
Bromomethane	ND		mg/kg	0.0027	0.00078	1
Chloroethane	ND		mg/kg	0.0027	0.00060	1
Trichlorofluoromethane	ND		mg/kg	0.0054	0.00093	1
1,1-Dichloroethene	ND		mg/kg	0.0013	0.00032	1
Carbon disulfide	ND		mg/kg	0.013	0.0061	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0054	0.00093	1
Methylene chloride	ND		mg/kg	0.0067	0.0031	1
Acetone	ND		mg/kg	0.033	0.013	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0020	0.00018	1
Methyl Acetate	ND		mg/kg	0.0054	0.0013	1
Methyl tert butyl ether	ND		mg/kg	0.0027	0.00027	1
1,1-Dichloroethane	ND		mg/kg	0.0013	0.00019	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0013	0.00023	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0013	0.00018	1
Cyclohexane	ND		mg/kg	0.013	0.00073	1
Bromochloromethane	ND		mg/kg	0.0027	0.00027	1
Chloroform	0.00030	JB	mg/kg	0.0020	0.00019	1
Carbon tetrachloride	ND		mg/kg	0.0013	0.00031	1
1,1,1-Trichloroethane	ND		mg/kg	0.00067	0.00022	1
2-Butanone	ND		mg/kg	0.013	0.0030	1
Benzene	ND		mg/kg	0.00067	0.00022	1
1,2-Dichloroethane	ND		mg/kg	0.0013	0.00034	1
Methyl cyclohexane	ND		mg/kg	0.0054	0.00081	1
Trichloroethene	ND		mg/kg	0.00067	0.00018	1
1,2-Dichloropropane	ND		mg/kg	0.0013	0.00017	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-08 Date Collected: 10/15/25 09:56

Client ID: FROG-SS-108 (5.5-7.5) Date Received: 10/15/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00067	0.00014	1
1,4-Dioxane	ND		mg/kg	0.11	0.047	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00067	0.00021	1
Toluene	ND		mg/kg	0.0013	0.00073	1
4-Methyl-2-pentanone	ND		mg/kg	0.013	0.0017	1
Tetrachloroethene	ND		mg/kg	0.00067	0.00026	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0013	0.00036	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00067	0.00021	1
1,1,2-Trichloroethane	ND		mg/kg	0.0013	0.00036	1
Dibromochloromethane	ND		mg/kg	0.0013	0.00019	1
1,2-Dibromoethane	ND		mg/kg	0.00067	0.00039	1
2-Hexanone	ND		mg/kg	0.013	0.0016	1
Chlorobenzene	ND		mg/kg	0.00067	0.00017	1
Ethylbenzene	ND		mg/kg	0.0013	0.00019	1
p/m-Xylene	ND		mg/kg	0.0027	0.00075	1
o-Xylene	ND		mg/kg	0.0013	0.00039	1
Xylenes, Total	ND		mg/kg	0.0013	0.00039	1
Styrene	ND		mg/kg	0.0013	0.00026	1
Bromoform	ND		mg/kg	0.0054	0.00033	1
Isopropylbenzene	ND		mg/kg	0.0013	0.00014	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00067	0.00022	1
1,3-Dichlorobenzene	ND		mg/kg	0.0027	0.00020	1
1,4-Dichlorobenzene	ND		mg/kg	0.0027	0.00023	1
1,2-Dichlorobenzene	ND		mg/kg	0.0027	0.00019	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0040	0.0013	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0027	0.00036	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0027	0.00043	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	113		70-130

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-09
Client ID: FROG-SS-109 (2.5-4.5)
Sample Location: CARLISLE, PA
Date Collected: 10/15/25 09:58
Date Received: 10/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 10/28/25 20:05
Analyst: AJK
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.010	0.00096	1
Chloromethane	ND		mg/kg	0.0042	0.00097	1
Vinyl chloride	ND		mg/kg	0.0010	0.00035	1
Bromomethane	ND		mg/kg	0.0021	0.00061	1
Chloroethane	ND		mg/kg	0.0021	0.00047	1
Trichlorofluoromethane	ND		mg/kg	0.0042	0.00073	1
1,1-Dichloroethene	ND		mg/kg	0.0010	0.00025	1
Carbon disulfide	ND		mg/kg	0.010	0.0048	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0042	0.00072	1
Methylene chloride	ND		mg/kg	0.0052	0.0024	1
Acetone	ND		mg/kg	0.026	0.010	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0016	0.00014	1
Methyl Acetate	ND		mg/kg	0.0042	0.00099	1
Methyl tert butyl ether	ND		mg/kg	0.0021	0.00021	1
1,1-Dichloroethane	ND		mg/kg	0.0010	0.00015	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0010	0.00018	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0010	0.00014	1
Cyclohexane	ND		mg/kg	0.010	0.00057	1
Bromochloromethane	ND		mg/kg	0.0021	0.00021	1
Chloroform	0.00020	JB	mg/kg	0.0016	0.00015	1
Carbon tetrachloride	ND		mg/kg	0.0010	0.00024	1
1,1,1-Trichloroethane	ND		mg/kg	0.00052	0.00017	1
2-Butanone	ND		mg/kg	0.010	0.0023	1
Benzene	ND		mg/kg	0.00052	0.00017	1
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00027	1
Methyl cyclohexane	ND		mg/kg	0.0042	0.00063	1
Trichloroethene	ND		mg/kg	0.00052	0.00014	1
1,2-Dichloropropane	ND		mg/kg	0.0010	0.00013	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-09 Date Collected: 10/15/25 09:58

Client ID: FROG-SS-109 (2.5-4.5) Date Received: 10/15/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00052	0.00011	1
1,4-Dioxane	ND		mg/kg	0.084	0.037	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00052	0.00016	1
Toluene	ND		mg/kg	0.0010	0.00057	1
4-Methyl-2-pentanone	ND		mg/kg	0.010	0.0013	1
Tetrachloroethene	ND		mg/kg	0.00052	0.00020	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00028	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00052	0.00016	1
1,1,2-Trichloroethane	ND		mg/kg	0.0010	0.00028	1
Dibromochloromethane	ND		mg/kg	0.0010	0.00015	1
1,2-Dibromoethane	ND		mg/kg	0.00052	0.00031	1
2-Hexanone	ND		mg/kg	0.010	0.0012	1
Chlorobenzene	ND		mg/kg	0.00052	0.00013	1
Ethylbenzene	ND		mg/kg	0.0010	0.00015	1
p/m-Xylene	ND		mg/kg	0.0021	0.00058	1
o-Xylene	ND		mg/kg	0.0010	0.00030	1
Xylenes, Total	ND		mg/kg	0.0010	0.00030	1
Styrene	ND		mg/kg	0.0010	0.00020	1
Bromoform	ND		mg/kg	0.0042	0.00026	1
Isopropylbenzene	ND		mg/kg	0.0010	0.00011	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00052	0.00017	1
1,3-Dichlorobenzene	ND		mg/kg	0.0021	0.00015	1
1,4-Dichlorobenzene	ND		mg/kg	0.0021	0.00018	1
1,2-Dichlorobenzene	ND		mg/kg	0.0021	0.00015	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0031	0.0010	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0021	0.00028	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0021	0.00034	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	118		70-130

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-10 Date Collected: 10/15/25 08:47

Client ID: FROG-SS-109 (8-10) Date Received: 10/15/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260D

Analytical Date: 10/28/25 20:33

Analyst: AJK

Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.011	0.0010	1
Chloromethane	ND		mg/kg	0.0044	0.0010	1
Vinyl chloride	ND		mg/kg	0.0011	0.00037	1
Bromomethane	ND		mg/kg	0.0022	0.00065	1
Chloroethane	ND		mg/kg	0.0022	0.00050	1
Trichlorofluoromethane	ND		mg/kg	0.0044	0.00077	1
1,1-Dichloroethene	ND		mg/kg	0.0011	0.00026	1
Carbon disulfide	ND		mg/kg	0.011	0.0050	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0044	0.00077	1
Methylene chloride	ND		mg/kg	0.0056	0.0025	1
Acetone	ND		mg/kg	0.028	0.011	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0017	0.00015	1
Methyl Acetate	ND		mg/kg	0.0044	0.0010	1
Methyl tert butyl ether	ND		mg/kg	0.0022	0.00022	1
1,1-Dichloroethane	ND		mg/kg	0.0011	0.00016	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0011	0.00019	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0011	0.00015	1
Cyclohexane	ND		mg/kg	0.011	0.00060	1
Bromochloromethane	ND		mg/kg	0.0022	0.00023	1
Chloroform	0.00019	JB	mg/kg	0.0017	0.00016	1
Carbon tetrachloride	ND		mg/kg	0.0011	0.00026	1
1,1,1-Trichloroethane	ND		mg/kg	0.00056	0.00018	1
2-Butanone	ND		mg/kg	0.011	0.0025	1
Benzene	ND		mg/kg	0.00056	0.00018	1
1,2-Dichloroethane	ND		mg/kg	0.0011	0.00028	1
Methyl cyclohexane	ND		mg/kg	0.0044	0.00067	1
Trichloroethene	ND		mg/kg	0.00056	0.00015	1
1,2-Dichloropropane	ND		mg/kg	0.0011	0.00014	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-10 Date Collected: 10/15/25 08:47

Client ID: FROG-SS-109 (8-10) Date Received: 10/15/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00056	0.00012	1
1,4-Dioxane	ND		mg/kg	0.089	0.039	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00056	0.00018	1
Toluene	ND		mg/kg	0.0011	0.00060	1
4-Methyl-2-pentanone	ND		mg/kg	0.011	0.0014	1
Tetrachloroethene	ND		mg/kg	0.00056	0.00022	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0011	0.00030	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00056	0.00018	1
1,1,2-Trichloroethane	ND		mg/kg	0.0011	0.00030	1
Dibromochloromethane	ND		mg/kg	0.0011	0.00016	1
1,2-Dibromoethane	ND		mg/kg	0.00056	0.00032	1
2-Hexanone	ND		mg/kg	0.011	0.0013	1
Chlorobenzene	ND		mg/kg	0.00056	0.00014	1
Ethylbenzene	ND		mg/kg	0.0011	0.00016	1
p/m-Xylene	ND		mg/kg	0.0022	0.00062	1
o-Xylene	ND		mg/kg	0.0011	0.00032	1
Xylenes, Total	ND		mg/kg	0.0011	0.00032	1
Styrene	ND		mg/kg	0.0011	0.00022	1
Bromoform	ND		mg/kg	0.0044	0.00027	1
Isopropylbenzene	ND		mg/kg	0.0011	0.00012	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00056	0.00018	1
1,3-Dichlorobenzene	ND		mg/kg	0.0022	0.00016	1
1,4-Dichlorobenzene	ND		mg/kg	0.0022	0.00019	1
1,2-Dichlorobenzene	ND		mg/kg	0.0022	0.00016	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0033	0.0011	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0022	0.00030	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0022	0.00036	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	117		70-130

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-11 Date Collected: 10/15/25 10:46

Client ID: FROG-SS-110 (1.5-3.5) Date Received: 10/15/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260D

Analytical Date: 10/28/25 21:00

Analyst: AJK

Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.0099	0.00091	1
Chloromethane	ND		mg/kg	0.0040	0.00092	1
Vinyl chloride	ND		mg/kg	0.00099	0.00033	1
Bromomethane	ND		mg/kg	0.0020	0.00058	1
Chloroethane	ND		mg/kg	0.0020	0.00045	1
Trichlorofluoromethane	ND		mg/kg	0.0040	0.00069	1
1,1-Dichloroethene	ND		mg/kg	0.00099	0.00024	1
Carbon disulfide	ND		mg/kg	0.0099	0.0045	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0040	0.00069	1
Methylene chloride	ND		mg/kg	0.0050	0.0023	1
Acetone	ND		mg/kg	0.025	0.0099	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0015	0.00014	1
Methyl Acetate	ND		mg/kg	0.0040	0.00094	1
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00020	1
1,1-Dichloroethane	0.00014	J	mg/kg	0.00099	0.00014	1
cis-1,2-Dichloroethene	ND		mg/kg	0.00099	0.00017	1
1,2-Dichloroethene, Total	ND		mg/kg	0.00099	0.00014	1
Cyclohexane	ND		mg/kg	0.0099	0.00054	1
Bromochloromethane	ND		mg/kg	0.0020	0.00020	1
Chloroform	0.00018	JB	mg/kg	0.0015	0.00014	1
Carbon tetrachloride	ND		mg/kg	0.00099	0.00023	1
1,1,1-Trichloroethane	ND		mg/kg	0.00050	0.00016	1
2-Butanone	ND		mg/kg	0.0099	0.0022	1
Benzene	0.0011		mg/kg	0.00050	0.00016	1
1,2-Dichloroethane	ND		mg/kg	0.00099	0.00025	1
Methyl cyclohexane	ND		mg/kg	0.0040	0.00060	1
Trichloroethene	ND		mg/kg	0.00050	0.00014	1
1,2-Dichloropropane	ND		mg/kg	0.00099	0.00012	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-11 Date Collected: 10/15/25 10:46

Client ID: FROG-SS-110 (1.5-3.5) Date Received: 10/15/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00050	0.00011	1
1,4-Dioxane	ND		mg/kg	0.079	0.035	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00050	0.00016	1
Toluene	0.00071	J	mg/kg	0.00099	0.00054	1
4-Methyl-2-pentanone	ND		mg/kg	0.0099	0.0013	1
Tetrachloroethene	ND		mg/kg	0.00050	0.00019	1
trans-1,3-Dichloropropene	ND		mg/kg	0.00099	0.00027	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00050	0.00016	1
1,1,2-Trichloroethane	ND		mg/kg	0.00099	0.00026	1
Dibromochloromethane	ND		mg/kg	0.00099	0.00014	1
1,2-Dibromoethane	ND		mg/kg	0.00050	0.00029	1
2-Hexanone	ND		mg/kg	0.0099	0.0012	1
Chlorobenzene	ND		mg/kg	0.00050	0.00012	1
Ethylbenzene	0.00024	J	mg/kg	0.00099	0.00014	1
p/m-Xylene	ND		mg/kg	0.0020	0.00056	1
o-Xylene	ND		mg/kg	0.00099	0.00029	1
Xylenes, Total	ND		mg/kg	0.00099	0.00029	1
Styrene	ND		mg/kg	0.00099	0.00019	1
Bromoform	ND		mg/kg	0.0040	0.00024	1
Isopropylbenzene	ND		mg/kg	0.00099	0.00011	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00050	0.00016	1
1,3-Dichlorobenzene	ND		mg/kg	0.0020	0.00015	1
1,4-Dichlorobenzene	ND		mg/kg	0.0020	0.00017	1
1,2-Dichlorobenzene	ND		mg/kg	0.0020	0.00014	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0030	0.00099	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0020	0.00027	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0020	0.00032	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	114		70-130

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-12
Client ID: FROG-SS-110 (5-7)
Sample Location: CARLISLE, PA

Date Collected: 10/15/25 10:52
Date Received: 10/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 10/28/25 21:27
Analyst: AJK
Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.0079	0.00072	1
Chloromethane	ND		mg/kg	0.0032	0.00074	1
Vinyl chloride	ND		mg/kg	0.00079	0.00026	1
Bromomethane	ND		mg/kg	0.0016	0.00046	1
Chloroethane	ND		mg/kg	0.0016	0.00036	1
Trichlorofluoromethane	ND		mg/kg	0.0032	0.00055	1
1,1-Dichloroethene	ND		mg/kg	0.00079	0.00019	1
Carbon disulfide	ND		mg/kg	0.0079	0.0036	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0032	0.00055	1
Methylene chloride	ND		mg/kg	0.0040	0.0018	1
Acetone	0.026		mg/kg	0.020	0.0079	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0012	0.00011	1
Methyl Acetate	ND		mg/kg	0.0032	0.00075	1
Methyl tert butyl ether	ND		mg/kg	0.0016	0.00016	1
1,1-Dichloroethane	0.00053	J	mg/kg	0.00079	0.00011	1
cis-1,2-Dichloroethene	ND		mg/kg	0.00079	0.00014	1
1,2-Dichloroethene, Total	ND		mg/kg	0.00079	0.00011	1
Cyclohexane	ND		mg/kg	0.0079	0.00043	1
Bromochloromethane	ND		mg/kg	0.0016	0.00016	1
Chloroform	0.00015	JB	mg/kg	0.0012	0.00011	1
Carbon tetrachloride	ND		mg/kg	0.00079	0.00018	1
1,1,1-Trichloroethane	ND		mg/kg	0.00040	0.00013	1
2-Butanone	0.0064	J	mg/kg	0.0079	0.0018	1
Benzene	0.0035		mg/kg	0.00040	0.00013	1
1,2-Dichloroethane	ND		mg/kg	0.00079	0.00020	1
Methyl cyclohexane	0.0013	J	mg/kg	0.0032	0.00048	1
Trichloroethene	ND		mg/kg	0.00040	0.00011	1
1,2-Dichloropropane	ND		mg/kg	0.00079	0.00009	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-12 Date Collected: 10/15/25 10:52

Client ID: FROG-SS-110 (5-7) Date Received: 10/15/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00040	0.00008	1
1,4-Dioxane	ND		mg/kg	0.063	0.028	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00040	0.00012	1
Toluene	0.0014		mg/kg	0.00079	0.00043	1
4-Methyl-2-pentanone	ND		mg/kg	0.0079	0.0010	1
Tetrachloroethene	ND		mg/kg	0.00040	0.00016	1
trans-1,3-Dichloropropene	ND		mg/kg	0.00079	0.00022	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00040	0.00012	1
1,1,2-Trichloroethane	ND		mg/kg	0.00079	0.00021	1
Dibromochloromethane	ND		mg/kg	0.00079	0.00011	1
1,2-Dibromoethane	ND		mg/kg	0.00040	0.00023	1
2-Hexanone	ND		mg/kg	0.0079	0.00094	1
Chlorobenzene	ND		mg/kg	0.00040	0.00010	1
Ethylbenzene	0.00042	J	mg/kg	0.00079	0.00011	1
p/m-Xylene	0.00044	J	mg/kg	0.0016	0.00044	1
o-Xylene	0.00027	J	mg/kg	0.00079	0.00023	1
Xylenes, Total	0.00071	J	mg/kg	0.00079	0.00023	1
Styrene	ND		mg/kg	0.00079	0.00016	1
Bromoform	ND		mg/kg	0.0032	0.00019	1
Isopropylbenzene	ND		mg/kg	0.00079	0.00008	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00040	0.00013	1
1,3-Dichlorobenzene	ND		mg/kg	0.0016	0.00012	1
1,4-Dichlorobenzene	ND		mg/kg	0.0016	0.00014	1
1,2-Dichlorobenzene	ND		mg/kg	0.0016	0.00011	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0024	0.00079	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0016	0.00022	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0016	0.00026	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	114		70-130

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-13 Date Collected: 10/15/25 00:00

Client ID: FROG-SS-DUP-101 Date Received: 10/15/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260D

Analytical Date: 10/28/25 21:54

Analyst: AJK

Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.014	0.0012	1
Chloromethane	ND		mg/kg	0.0054	0.0013	1
Vinyl chloride	ND		mg/kg	0.0014	0.00045	1
Bromomethane	ND		mg/kg	0.0027	0.00079	1
Chloroethane	ND		mg/kg	0.0027	0.00061	1
Trichlorofluoromethane	ND		mg/kg	0.0054	0.00094	1
1,1-Dichloroethene	ND		mg/kg	0.0014	0.00032	1
Carbon disulfide	ND		mg/kg	0.014	0.0062	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0054	0.00094	1
Methylene chloride	ND		mg/kg	0.0068	0.0031	1
Acetone	ND		mg/kg	0.034	0.014	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0020	0.00018	1
Methyl Acetate	0.0018	J	mg/kg	0.0054	0.0013	1
Methyl tert butyl ether	ND		mg/kg	0.0027	0.00027	1
1,1-Dichloroethane	ND		mg/kg	0.0014	0.00020	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0014	0.00024	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0014	0.00018	1
Cyclohexane	ND		mg/kg	0.014	0.00074	1
Bromochloromethane	ND		mg/kg	0.0027	0.00028	1
Chloroform	0.00030	JB	mg/kg	0.0020	0.00019	1
Carbon tetrachloride	ND		mg/kg	0.0014	0.00031	1
1,1,1-Trichloroethane	ND		mg/kg	0.00068	0.00023	1
2-Butanone	ND		mg/kg	0.014	0.0030	1
Benzene	ND		mg/kg	0.00068	0.00022	1
1,2-Dichloroethane	ND		mg/kg	0.0014	0.00035	1
Methyl cyclohexane	ND		mg/kg	0.0054	0.00082	1
Trichloroethene	ND		mg/kg	0.00068	0.00018	1
1,2-Dichloropropane	ND		mg/kg	0.0014	0.00017	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-13 Date Collected: 10/15/25 00:00

Client ID: FROG-SS-DUP-101 Date Received: 10/15/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00068	0.00015	1
1,4-Dioxane	ND		mg/kg	0.11	0.048	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00068	0.00021	1
Toluene	ND		mg/kg	0.0014	0.00074	1
4-Methyl-2-pentanone	ND		mg/kg	0.014	0.0017	1
Tetrachloroethene	ND		mg/kg	0.00068	0.00026	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0014	0.00037	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00068	0.00021	1
1,1,2-Trichloroethane	ND		mg/kg	0.0014	0.00036	1
Dibromochloromethane	ND		mg/kg	0.0014	0.00019	1
1,2-Dibromoethane	ND		mg/kg	0.00068	0.00040	1
2-Hexanone	ND		mg/kg	0.014	0.0016	1
Chlorobenzene	ND		mg/kg	0.00068	0.00017	1
Ethylbenzene	ND		mg/kg	0.0014	0.00019	1
p/m-Xylene	ND		mg/kg	0.0027	0.00076	1
o-Xylene	ND		mg/kg	0.0014	0.00039	1
Xylenes, Total	ND		mg/kg	0.0014	0.00039	1
Styrene	ND		mg/kg	0.0014	0.00026	1
Bromoform	ND		mg/kg	0.0054	0.00033	1
Isopropylbenzene	ND		mg/kg	0.0014	0.00015	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00068	0.00022	1
1,3-Dichlorobenzene	ND		mg/kg	0.0027	0.00020	1
1,4-Dichlorobenzene	ND		mg/kg	0.0027	0.00023	1
1,2-Dichlorobenzene	ND		mg/kg	0.0027	0.00020	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0041	0.0014	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0027	0.00037	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0027	0.00044	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	119		70-130

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-14
Client ID: FROG-SS-FB-101
Sample Location: CARLISLE, PA
Date Collected: 10/15/25 15:30
Date Received: 10/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 10/23/25 07:29
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	1.6	J	ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-14 Date Collected: 10/15/25 15:30

Client ID: FROG-SS-FB-101 Date Received: 10/15/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	110		70-130

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-14
Client ID: FROG-SS-FB-101
Sample Location: CARLISLE, PA
Date Collected: 10/15/25 15:30
Date Received: 10/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 10/23/25 07:29
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
4-Bromofluorobenzene	89		70-130

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-15 Date Collected: 10/16/25 14:20

Client ID: FROG-SS-118 (0-2) Date Received: 10/16/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260D

Analytical Date: 10/29/25 17:38

Analyst: AJK

Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.011	0.0010	1
Chloromethane	ND		mg/kg	0.0044	0.0010	1
Vinyl chloride	ND		mg/kg	0.0011	0.00037	1
Bromomethane	ND		mg/kg	0.0022	0.00064	1
Chloroethane	ND		mg/kg	0.0022	0.00050	1
Trichlorofluoromethane	ND		mg/kg	0.0044	0.00077	1
1,1-Dichloroethene	ND		mg/kg	0.0011	0.00026	1
Carbon disulfide	ND		mg/kg	0.011	0.0050	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0044	0.00077	1
Methylene chloride	ND		mg/kg	0.0055	0.0025	1
Acetone	ND		mg/kg	0.028	0.011	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0017	0.00015	1
Methyl Acetate	ND		mg/kg	0.0044	0.0010	1
Methyl tert butyl ether	ND		mg/kg	0.0022	0.00022	1
1,1-Dichloroethane	ND		mg/kg	0.0011	0.00016	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0011	0.00019	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0011	0.00015	1
Cyclohexane	ND		mg/kg	0.011	0.00060	1
Bromochloromethane	ND		mg/kg	0.0022	0.00023	1
Chloroform	ND		mg/kg	0.0017	0.00016	1
Carbon tetrachloride	ND		mg/kg	0.0011	0.00026	1
1,1,1-Trichloroethane	ND		mg/kg	0.00055	0.00018	1
2-Butanone	ND		mg/kg	0.011	0.0025	1
Benzene	ND		mg/kg	0.00055	0.00018	1
1,2-Dichloroethane	ND		mg/kg	0.0011	0.00028	1
Methyl cyclohexane	ND		mg/kg	0.0044	0.00067	1
Trichloroethene	ND		mg/kg	0.00055	0.00015	1
1,2-Dichloropropane	ND		mg/kg	0.0011	0.00014	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-15 Date Collected: 10/16/25 14:20

Client ID: FROG-SS-118 (0-2) Date Received: 10/16/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00055	0.00012	1
1,4-Dioxane	ND		mg/kg	0.089	0.039	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00055	0.00018	1
Toluene	ND		mg/kg	0.0011	0.00060	1
4-Methyl-2-pentanone	ND		mg/kg	0.011	0.0014	1
Tetrachloroethene	ND		mg/kg	0.00055	0.00022	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0011	0.00030	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00055	0.00018	1
1,1,2-Trichloroethane	ND		mg/kg	0.0011	0.00030	1
Dibromochloromethane	ND		mg/kg	0.0011	0.00016	1
1,2-Dibromoethane	ND		mg/kg	0.00055	0.00032	1
2-Hexanone	ND		mg/kg	0.011	0.0013	1
Chlorobenzene	ND		mg/kg	0.00055	0.00014	1
Ethylbenzene	ND		mg/kg	0.0011	0.00016	1
p/m-Xylene	ND		mg/kg	0.0022	0.00062	1
o-Xylene	ND		mg/kg	0.0011	0.00032	1
Xylenes, Total	ND		mg/kg	0.0011	0.00032	1
Styrene	ND		mg/kg	0.0011	0.00022	1
Bromoform	ND		mg/kg	0.0044	0.00027	1
Isopropylbenzene	ND		mg/kg	0.0011	0.00012	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00055	0.00018	1
1,3-Dichlorobenzene	ND		mg/kg	0.0022	0.00016	1
1,4-Dichlorobenzene	ND		mg/kg	0.0022	0.00019	1
1,2-Dichlorobenzene	ND		mg/kg	0.0022	0.00016	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0033	0.0011	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0022	0.00030	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0022	0.00036	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	84		70-130
Dibromofluoromethane	106		70-130

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-16 Date Collected: 10/16/25 14:23

Client ID: FROG-SS-118 (10-12) Date Received: 10/16/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260D

Analytical Date: 10/29/25 18:04

Analyst: AJK

Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.014	0.0013	1
Chloromethane	ND		mg/kg	0.0058	0.0013	1
Vinyl chloride	ND		mg/kg	0.0014	0.00048	1
Bromomethane	ND		mg/kg	0.0029	0.00084	1
Chloroethane	ND		mg/kg	0.0029	0.00065	1
Trichlorofluoromethane	ND		mg/kg	0.0058	0.0010	1
1,1-Dichloroethene	ND		mg/kg	0.0014	0.00034	1
Carbon disulfide	ND		mg/kg	0.014	0.0066	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0058	0.0010	1
Methylene chloride	ND		mg/kg	0.0072	0.0033	1
Acetone	ND		mg/kg	0.036	0.014	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0022	0.00020	1
Methyl Acetate	ND		mg/kg	0.0058	0.0014	1
Methyl tert butyl ether	ND		mg/kg	0.0029	0.00029	1
1,1-Dichloroethane	ND		mg/kg	0.0014	0.00021	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0014	0.00025	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0014	0.00020	1
Cyclohexane	ND		mg/kg	0.014	0.00079	1
Bromochloromethane	ND		mg/kg	0.0029	0.00030	1
Chloroform	ND		mg/kg	0.0022	0.00020	1
Carbon tetrachloride	ND		mg/kg	0.0014	0.00033	1
1,1,1-Trichloroethane	ND		mg/kg	0.00072	0.00024	1
2-Butanone	ND		mg/kg	0.014	0.0032	1
Benzene	ND		mg/kg	0.00072	0.00024	1
1,2-Dichloroethane	ND		mg/kg	0.0014	0.00037	1
Methyl cyclohexane	ND		mg/kg	0.0058	0.00087	1
Trichloroethene	ND		mg/kg	0.00072	0.00020	1
1,2-Dichloropropane	ND		mg/kg	0.0014	0.00018	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-16 Date Collected: 10/16/25 14:23

Client ID: FROG-SS-118 (10-12) Date Received: 10/16/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00072	0.00016	1
1,4-Dioxane	ND		mg/kg	0.12	0.051	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00072	0.00023	1
Toluene	ND		mg/kg	0.0014	0.00078	1
4-Methyl-2-pentanone	ND		mg/kg	0.014	0.0018	1
Tetrachloroethene	ND		mg/kg	0.00072	0.00028	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0014	0.00039	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00072	0.00023	1
1,1,2-Trichloroethane	ND		mg/kg	0.0014	0.00039	1
Dibromochloromethane	ND		mg/kg	0.0014	0.00020	1
1,2-Dibromoethane	ND		mg/kg	0.00072	0.00042	1
2-Hexanone	ND		mg/kg	0.014	0.0017	1
Chlorobenzene	ND		mg/kg	0.00072	0.00018	1
Ethylbenzene	ND		mg/kg	0.0014	0.00020	1
p/m-Xylene	ND		mg/kg	0.0029	0.00081	1
o-Xylene	ND		mg/kg	0.0014	0.00042	1
Xylenes, Total	ND		mg/kg	0.0014	0.00042	1
Styrene	ND		mg/kg	0.0014	0.00028	1
Bromoform	ND		mg/kg	0.0058	0.00036	1
Isopropylbenzene	ND		mg/kg	0.0014	0.00016	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00072	0.00024	1
1,3-Dichlorobenzene	ND		mg/kg	0.0029	0.00021	1
1,4-Dichlorobenzene	ND		mg/kg	0.0029	0.00025	1
1,2-Dichlorobenzene	ND		mg/kg	0.0029	0.00021	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0043	0.0014	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0029	0.00039	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0029	0.00046	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	86		70-130
Dibromofluoromethane	109		70-130

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-17
Client ID: FROG-SS-119 (0.5-1)
Sample Location: CARLISLE, PA
Date Collected: 10/16/25 13:45
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 10/29/25 18:31
Analyst: AJK
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.0097	0.00089	1
Chloromethane	ND		mg/kg	0.0039	0.00090	1
Vinyl chloride	ND		mg/kg	0.00097	0.00032	1
Bromomethane	ND		mg/kg	0.0019	0.00056	1
Chloroethane	ND		mg/kg	0.0019	0.00044	1
Trichlorofluoromethane	ND		mg/kg	0.0039	0.00067	1
1,1-Dichloroethene	ND		mg/kg	0.00097	0.00023	1
Carbon disulfide	ND		mg/kg	0.0097	0.0044	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0039	0.00067	1
Methylene chloride	ND		mg/kg	0.0048	0.0022	1
Acetone	ND		mg/kg	0.024	0.0097	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0014	0.00013	1
Methyl Acetate	ND		mg/kg	0.0039	0.00092	1
Methyl tert butyl ether	ND		mg/kg	0.0019	0.00019	1
1,1-Dichloroethane	ND		mg/kg	0.00097	0.00014	1
cis-1,2-Dichloroethene	ND		mg/kg	0.00097	0.00017	1
1,2-Dichloroethene, Total	ND		mg/kg	0.00097	0.00013	1
Cyclohexane	0.00077	J	mg/kg	0.0097	0.00053	1
Bromochloromethane	ND		mg/kg	0.0019	0.00020	1
Chloroform	ND		mg/kg	0.0014	0.00014	1
Carbon tetrachloride	ND		mg/kg	0.00097	0.00022	1
1,1,1-Trichloroethane	ND		mg/kg	0.00048	0.00016	1
2-Butanone	ND		mg/kg	0.0097	0.0022	1
Benzene	ND		mg/kg	0.00048	0.00016	1
1,2-Dichloroethane	ND		mg/kg	0.00097	0.00025	1
Methyl cyclohexane	ND		mg/kg	0.0039	0.00058	1
Trichloroethene	ND		mg/kg	0.00048	0.00013	1
1,2-Dichloropropane	ND		mg/kg	0.00097	0.00012	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-17 Date Collected: 10/16/25 13:45

Client ID: FROG-SS-119 (0.5-1) Date Received: 10/16/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00048	0.00010	1
1,4-Dioxane	ND		mg/kg	0.077	0.034	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00048	0.00015	1
Toluene	ND		mg/kg	0.00097	0.00052	1
4-Methyl-2-pentanone	ND		mg/kg	0.0097	0.0012	1
Tetrachloroethene	ND		mg/kg	0.00048	0.00019	1
trans-1,3-Dichloropropene	ND		mg/kg	0.00097	0.00026	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00048	0.00015	1
1,1,2-Trichloroethane	ND		mg/kg	0.00097	0.00026	1
Dibromochloromethane	ND		mg/kg	0.00097	0.00014	1
1,2-Dibromoethane	ND		mg/kg	0.00048	0.00028	1
2-Hexanone	ND		mg/kg	0.0097	0.0011	1
Chlorobenzene	ND		mg/kg	0.00048	0.00012	1
Ethylbenzene	ND		mg/kg	0.00097	0.00014	1
p/m-Xylene	ND		mg/kg	0.0019	0.00054	1
o-Xylene	ND		mg/kg	0.00097	0.00028	1
Xylenes, Total	ND		mg/kg	0.00097	0.00028	1
Styrene	ND		mg/kg	0.00097	0.00019	1
Bromoform	ND		mg/kg	0.0039	0.00024	1
Isopropylbenzene	ND		mg/kg	0.00097	0.00010	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00048	0.00016	1
1,3-Dichlorobenzene	ND		mg/kg	0.0019	0.00014	1
1,4-Dichlorobenzene	ND		mg/kg	0.0019	0.00016	1
1,2-Dichlorobenzene	ND		mg/kg	0.0019	0.00014	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0029	0.00097	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0019	0.00026	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0019	0.00031	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	84		70-130

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-18
Client ID: FROG-SS-111 (0-2)
Sample Location: CARLISLE, PA

Date Collected: 10/16/25 10:28
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 10/29/25 18:57
Analyst: AJK
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.010	0.00094	1
Chloromethane	ND		mg/kg	0.0041	0.00095	1
Vinyl chloride	ND		mg/kg	0.0010	0.00034	1
Bromomethane	ND		mg/kg	0.0020	0.00059	1
Chloroethane	ND		mg/kg	0.0020	0.00046	1
Trichlorofluoromethane	ND		mg/kg	0.0041	0.00071	1
1,1-Dichloroethene	ND		mg/kg	0.0010	0.00024	1
Carbon disulfide	ND		mg/kg	0.010	0.0046	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0041	0.00071	1
Methylene chloride	ND		mg/kg	0.0051	0.0023	1
Acetone	ND		mg/kg	0.026	0.010	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0015	0.00014	1
Methyl Acetate	ND		mg/kg	0.0041	0.00097	1
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00020	1
1,1-Dichloroethane	ND		mg/kg	0.0010	0.00015	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0010	0.00018	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0010	0.00014	1
Cyclohexane	ND		mg/kg	0.010	0.00056	1
Bromochloromethane	ND		mg/kg	0.0020	0.00021	1
Chloroform	ND		mg/kg	0.0015	0.00014	1
Carbon tetrachloride	ND		mg/kg	0.0010	0.00024	1
1,1,1-Trichloroethane	ND		mg/kg	0.00051	0.00017	1
2-Butanone	ND		mg/kg	0.010	0.0023	1
Benzene	ND		mg/kg	0.00051	0.00017	1
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00026	1
Methyl cyclohexane	ND		mg/kg	0.0041	0.00062	1
Trichloroethene	ND		mg/kg	0.00051	0.00014	1
1,2-Dichloropropane	ND		mg/kg	0.0010	0.00013	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-18 Date Collected: 10/16/25 10:28

Client ID: FROG-SS-111 (0-2) Date Received: 10/16/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00051	0.00011	1
1,4-Dioxane	ND		mg/kg	0.082	0.036	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00051	0.00016	1
Toluene	ND		mg/kg	0.0010	0.00056	1
4-Methyl-2-pentanone	ND		mg/kg	0.010	0.0013	1
Tetrachloroethene	ND		mg/kg	0.00051	0.00020	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00028	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00051	0.00016	1
1,1,2-Trichloroethane	ND		mg/kg	0.0010	0.00027	1
Dibromochloromethane	ND		mg/kg	0.0010	0.00014	1
1,2-Dibromoethane	ND		mg/kg	0.00051	0.00030	1
2-Hexanone	ND		mg/kg	0.010	0.0012	1
Chlorobenzene	ND		mg/kg	0.00051	0.00013	1
Ethylbenzene	ND		mg/kg	0.0010	0.00014	1
p/m-Xylene	ND		mg/kg	0.0020	0.00057	1
o-Xylene	ND		mg/kg	0.0010	0.00030	1
Xylenes, Total	ND		mg/kg	0.0010	0.00030	1
Styrene	ND		mg/kg	0.0010	0.00020	1
Bromoform	ND		mg/kg	0.0041	0.00025	1
Isopropylbenzene	ND		mg/kg	0.0010	0.00011	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00051	0.00017	1
1,3-Dichlorobenzene	ND		mg/kg	0.0020	0.00015	1
1,4-Dichlorobenzene	ND		mg/kg	0.0020	0.00017	1
1,2-Dichlorobenzene	ND		mg/kg	0.0020	0.00015	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0031	0.0010	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0020	0.00028	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0020	0.00033	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	85		70-130
Dibromofluoromethane	111		70-130

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-19
Client ID: FROG-SS-111 (11-13)
Sample Location: CARLISLE, PA

Date Collected: 10/16/25 10:30
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 10/30/25 06:12
Analyst: AJK
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.012	0.0012	1
Chloromethane	ND		mg/kg	0.0050	0.0012	1
Vinyl chloride	ND		mg/kg	0.0012	0.00042	1
Bromomethane	ND		mg/kg	0.0025	0.00073	1
Chloroethane	ND		mg/kg	0.0025	0.00057	1
Trichlorofluoromethane	ND		mg/kg	0.0050	0.00087	1
1,1-Dichloroethene	ND		mg/kg	0.0012	0.00030	1
Carbon disulfide	ND		mg/kg	0.012	0.0057	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0050	0.00087	1
Methylene chloride	ND		mg/kg	0.0063	0.0029	1
Acetone	ND		mg/kg	0.031	0.012	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0019	0.00017	1
Methyl Acetate	ND		mg/kg	0.0050	0.0012	1
Methyl tert butyl ether	ND		mg/kg	0.0025	0.00025	1
1,1-Dichloroethane	ND		mg/kg	0.0012	0.00018	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0012	0.00022	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0012	0.00017	1
Cyclohexane	ND		mg/kg	0.012	0.00068	1
Bromochloromethane	ND		mg/kg	0.0025	0.00026	1
Chloroform	ND		mg/kg	0.0019	0.00018	1
Carbon tetrachloride	ND		mg/kg	0.0012	0.00029	1
1,1,1-Trichloroethane	ND		mg/kg	0.00063	0.00021	1
2-Butanone	ND		mg/kg	0.012	0.0028	1
Benzene	ND		mg/kg	0.00063	0.00021	1
1,2-Dichloroethane	ND		mg/kg	0.0012	0.00032	1
Methyl cyclohexane	ND		mg/kg	0.0050	0.00076	1
Trichloroethene	ND		mg/kg	0.00063	0.00017	1
1,2-Dichloropropane	ND		mg/kg	0.0012	0.00016	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-19 Date Collected: 10/16/25 10:30

Client ID: FROG-SS-111 (11-13) Date Received: 10/16/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00063	0.00014	1
1,4-Dioxane	ND		mg/kg	0.10	0.044	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00063	0.00020	1
Toluene	ND		mg/kg	0.0012	0.00068	1
4-Methyl-2-pentanone	ND		mg/kg	0.012	0.0016	1
Tetrachloroethene	ND		mg/kg	0.00063	0.00025	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0012	0.00034	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00063	0.00020	1
1,1,2-Trichloroethane	ND		mg/kg	0.0012	0.00034	1
Dibromochloromethane	ND		mg/kg	0.0012	0.00018	1
1,2-Dibromoethane	ND		mg/kg	0.00063	0.00037	1
2-Hexanone	ND		mg/kg	0.012	0.0015	1
Chlorobenzene	ND		mg/kg	0.00063	0.00016	1
Ethylbenzene	ND		mg/kg	0.0012	0.00018	1
p/m-Xylene	ND		mg/kg	0.0025	0.00070	1
o-Xylene	ND		mg/kg	0.0012	0.00037	1
Xylenes, Total	ND		mg/kg	0.0012	0.00037	1
Styrene	ND		mg/kg	0.0012	0.00025	1
Bromoform	ND		mg/kg	0.0050	0.00031	1
Isopropylbenzene	ND		mg/kg	0.0012	0.00014	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00063	0.00021	1
1,3-Dichlorobenzene	ND		mg/kg	0.0025	0.00019	1
1,4-Dichlorobenzene	ND		mg/kg	0.0025	0.00022	1
1,2-Dichlorobenzene	ND		mg/kg	0.0025	0.00018	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0038	0.0012	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0025	0.00034	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0025	0.00040	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	99		70-130

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-20
Client ID: FROG-SS-112 (0-2)
Sample Location: CARLISLE, PA

Date Collected: 10/16/25 11:20
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 10/30/25 06:38
Analyst: AJK
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.010	0.00091	1
Chloromethane	ND		mg/kg	0.0040	0.00093	1
Vinyl chloride	ND		mg/kg	0.0010	0.00033	1
Bromomethane	ND		mg/kg	0.0020	0.00058	1
Chloroethane	ND		mg/kg	0.0020	0.00045	1
Trichlorofluoromethane	ND		mg/kg	0.0040	0.00069	1
1,1-Dichloroethene	ND		mg/kg	0.0010	0.00024	1
Carbon disulfide	ND		mg/kg	0.010	0.0045	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0040	0.00069	1
Methylene chloride	ND		mg/kg	0.0050	0.0023	1
Acetone	ND		mg/kg	0.025	0.010	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0015	0.00014	1
Methyl Acetate	ND		mg/kg	0.0040	0.00095	1
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00020	1
1,1-Dichloroethane	ND		mg/kg	0.0010	0.00014	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0010	0.00017	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0010	0.00014	1
Cyclohexane	ND		mg/kg	0.010	0.00054	1
Bromochloromethane	ND		mg/kg	0.0020	0.00020	1
Chloroform	ND		mg/kg	0.0015	0.00014	1
Carbon tetrachloride	ND		mg/kg	0.0010	0.00023	1
1,1,1-Trichloroethane	ND		mg/kg	0.00050	0.00017	1
2-Butanone	ND		mg/kg	0.010	0.0022	1
Benzene	ND		mg/kg	0.00050	0.00016	1
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00026	1
Methyl cyclohexane	ND		mg/kg	0.0040	0.00060	1
Trichloroethene	ND		mg/kg	0.00050	0.00014	1
1,2-Dichloropropane	ND		mg/kg	0.0010	0.00012	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-20 Date Collected: 10/16/25 11:20

Client ID: FROG-SS-112 (0-2) Date Received: 10/16/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00050	0.00011	1
1,4-Dioxane	ND		mg/kg	0.080	0.035	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00050	0.00016	1
Toluene	ND		mg/kg	0.0010	0.00054	1
4-Methyl-2-pentanone	ND		mg/kg	0.010	0.0013	1
Tetrachloroethene	ND		mg/kg	0.00050	0.00020	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00027	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00050	0.00016	1
1,1,2-Trichloroethane	ND		mg/kg	0.0010	0.00027	1
Dibromochloromethane	ND		mg/kg	0.0010	0.00014	1
1,2-Dibromoethane	ND		mg/kg	0.00050	0.00029	1
2-Hexanone	ND		mg/kg	0.010	0.0012	1
Chlorobenzene	ND		mg/kg	0.00050	0.00013	1
Ethylbenzene	ND		mg/kg	0.0010	0.00014	1
p/m-Xylene	ND		mg/kg	0.0020	0.00056	1
o-Xylene	ND		mg/kg	0.0010	0.00029	1
Xylenes, Total	ND		mg/kg	0.0010	0.00029	1
Styrene	ND		mg/kg	0.0010	0.00020	1
Bromoform	ND		mg/kg	0.0040	0.00024	1
Isopropylbenzene	ND		mg/kg	0.0010	0.00011	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00050	0.00016	1
1,3-Dichlorobenzene	ND		mg/kg	0.0020	0.00015	1
1,4-Dichlorobenzene	ND		mg/kg	0.0020	0.00017	1
1,2-Dichlorobenzene	ND		mg/kg	0.0020	0.00014	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0030	0.0010	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0020	0.00027	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0020	0.00032	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	100		70-130

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-21
Client ID: FROG-SS-112 (7-9)
Sample Location: CARLISLE, PA

Date Collected: 10/16/25 11:22
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 10/30/25 07:04
Analyst: AJK
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.010	0.00094	1
Chloromethane	ND		mg/kg	0.0041	0.00096	1
Vinyl chloride	ND		mg/kg	0.0010	0.00034	1
Bromomethane	ND		mg/kg	0.0020	0.00060	1
Chloroethane	ND		mg/kg	0.0020	0.00046	1
Trichlorofluoromethane	ND		mg/kg	0.0041	0.00071	1
1,1-Dichloroethene	ND		mg/kg	0.0010	0.00024	1
Carbon disulfide	ND		mg/kg	0.010	0.0047	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0041	0.00071	1
Methylene chloride	ND		mg/kg	0.0051	0.0024	1
Acetone	ND		mg/kg	0.026	0.010	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0015	0.00014	1
Methyl Acetate	ND		mg/kg	0.0041	0.00098	1
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00021	1
1,1-Dichloroethane	ND		mg/kg	0.0010	0.00015	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0010	0.00018	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0010	0.00014	1
Cyclohexane	ND		mg/kg	0.010	0.00056	1
Bromochloromethane	ND		mg/kg	0.0020	0.00021	1
Chloroform	ND		mg/kg	0.0015	0.00014	1
Carbon tetrachloride	ND		mg/kg	0.0010	0.00024	1
1,1,1-Trichloroethane	ND		mg/kg	0.00051	0.00017	1
2-Butanone	ND		mg/kg	0.010	0.0023	1
Benzene	ND		mg/kg	0.00051	0.00017	1
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00026	1
Methyl cyclohexane	ND		mg/kg	0.0041	0.00062	1
Trichloroethene	ND		mg/kg	0.00051	0.00014	1
1,2-Dichloropropane	ND		mg/kg	0.0010	0.00013	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-21 Date Collected: 10/16/25 11:22

Client ID: FROG-SS-112 (7-9) Date Received: 10/16/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00051	0.00011	1
1,4-Dioxane	ND		mg/kg	0.082	0.036	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00051	0.00016	1
Toluene	ND		mg/kg	0.0010	0.00056	1
4-Methyl-2-pentanone	ND		mg/kg	0.010	0.0013	1
Tetrachloroethene	ND		mg/kg	0.00051	0.00020	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00028	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00051	0.00016	1
1,1,2-Trichloroethane	ND		mg/kg	0.0010	0.00027	1
Dibromochloromethane	ND		mg/kg	0.0010	0.00014	1
1,2-Dibromoethane	ND		mg/kg	0.00051	0.00030	1
2-Hexanone	ND		mg/kg	0.010	0.0012	1
Chlorobenzene	ND		mg/kg	0.00051	0.00013	1
Ethylbenzene	ND		mg/kg	0.0010	0.00014	1
p/m-Xylene	ND		mg/kg	0.0020	0.00058	1
o-Xylene	ND		mg/kg	0.0010	0.00030	1
Xylenes, Total	ND		mg/kg	0.0010	0.00030	1
Styrene	ND		mg/kg	0.0010	0.00020	1
Bromoform	ND		mg/kg	0.0041	0.00025	1
Isopropylbenzene	ND		mg/kg	0.0010	0.00011	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00051	0.00017	1
1,3-Dichlorobenzene	ND		mg/kg	0.0020	0.00015	1
1,4-Dichlorobenzene	ND		mg/kg	0.0020	0.00018	1
1,2-Dichlorobenzene	ND		mg/kg	0.0020	0.00015	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0031	0.0010	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0020	0.00028	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0020	0.00033	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	99		70-130

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-22
Client ID: FROG-SS-120 (0-2)
Sample Location: CARLISLE, PA

Date Collected: 10/16/25 08:00
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 10/30/25 14:13
Analyst: MNF
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.010	0.00095	1
Chloromethane	ND		mg/kg	0.0042	0.00097	1
Vinyl chloride	ND		mg/kg	0.0010	0.00035	1
Bromomethane	ND		mg/kg	0.0021	0.00061	1
Chloroethane	ND		mg/kg	0.0021	0.00047	1
Trichlorofluoromethane	ND		mg/kg	0.0042	0.00072	1
1,1-Dichloroethene	ND		mg/kg	0.0010	0.00025	1
Carbon disulfide	ND		mg/kg	0.010	0.0047	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0042	0.00072	1
Methylene chloride	ND		mg/kg	0.0052	0.0024	1
Acetone	ND		mg/kg	0.026	0.010	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0016	0.00014	1
Methyl Acetate	ND		mg/kg	0.0042	0.00099	1
Methyl tert butyl ether	ND		mg/kg	0.0021	0.00021	1
1,1-Dichloroethane	ND		mg/kg	0.0010	0.00015	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0010	0.00018	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0010	0.00014	1
Cyclohexane	ND		mg/kg	0.010	0.00057	1
Bromochloromethane	ND		mg/kg	0.0021	0.00021	1
Chloroform	ND		mg/kg	0.0016	0.00015	1
Carbon tetrachloride	ND		mg/kg	0.0010	0.00024	1
1,1,1-Trichloroethane	ND		mg/kg	0.00052	0.00017	1
2-Butanone	ND		mg/kg	0.010	0.0023	1
Benzene	ND		mg/kg	0.00052	0.00017	1
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00027	1
Methyl cyclohexane	ND		mg/kg	0.0042	0.00063	1
Trichloroethene	ND		mg/kg	0.00052	0.00014	1
1,2-Dichloropropane	ND		mg/kg	0.0010	0.00013	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-22 Date Collected: 10/16/25 08:00

Client ID: FROG-SS-120 (0-2) Date Received: 10/16/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00052	0.00011	1
1,4-Dioxane	ND		mg/kg	0.083	0.037	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00052	0.00016	1
Toluene	ND		mg/kg	0.0010	0.00057	1
4-Methyl-2-pentanone	ND		mg/kg	0.010	0.0013	1
Tetrachloroethene	ND		mg/kg	0.00052	0.00020	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00028	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00052	0.00016	1
1,1,2-Trichloroethane	ND		mg/kg	0.0010	0.00028	1
Dibromochloromethane	ND		mg/kg	0.0010	0.00015	1
1,2-Dibromoethane	ND		mg/kg	0.00052	0.00030	1
2-Hexanone	ND		mg/kg	0.010	0.0012	1
Chlorobenzene	ND		mg/kg	0.00052	0.00013	1
Ethylbenzene	ND		mg/kg	0.0010	0.00015	1
p/m-Xylene	ND		mg/kg	0.0021	0.00058	1
o-Xylene	ND		mg/kg	0.0010	0.00030	1
Xylenes, Total	ND		mg/kg	0.0010	0.00030	1
Styrene	ND		mg/kg	0.0010	0.00020	1
Bromoform	ND		mg/kg	0.0042	0.00026	1
Isopropylbenzene	ND		mg/kg	0.0010	0.00011	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00052	0.00017	1
1,3-Dichlorobenzene	ND		mg/kg	0.0021	0.00015	1
1,4-Dichlorobenzene	ND		mg/kg	0.0021	0.00018	1
1,2-Dichlorobenzene	ND		mg/kg	0.0021	0.00015	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0031	0.0010	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0021	0.00028	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0021	0.00034	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	101		70-130

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-23
Client ID: FROG-SS-120 (2-3.5)
Sample Location: CARLISLE, PA
Date Collected: 10/16/25 08:05
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 10/30/25 12:19
Analyst: MNF
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.0095	0.00087	1
Chloromethane	ND		mg/kg	0.0038	0.00088	1
Vinyl chloride	ND		mg/kg	0.00095	0.00032	1
Bromomethane	ND		mg/kg	0.0019	0.00055	1
Chloroethane	ND		mg/kg	0.0019	0.00043	1
Trichlorofluoromethane	ND		mg/kg	0.0038	0.00066	1
1,1-Dichloroethene	ND		mg/kg	0.00095	0.00022	1
Carbon disulfide	ND		mg/kg	0.0095	0.0043	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0038	0.00066	1
Methylene chloride	ND		mg/kg	0.0047	0.0022	1
Acetone	0.022	J	mg/kg	0.024	0.0095	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0014	0.00013	1
Methyl Acetate	ND		mg/kg	0.0038	0.00090	1
Methyl tert butyl ether	ND		mg/kg	0.0019	0.00019	1
1,1-Dichloroethane	ND		mg/kg	0.00095	0.00014	1
cis-1,2-Dichloroethene	ND		mg/kg	0.00095	0.00017	1
1,2-Dichloroethene, Total	ND		mg/kg	0.00095	0.00013	1
Cyclohexane	ND		mg/kg	0.0095	0.00052	1
Bromochloromethane	ND		mg/kg	0.0019	0.00019	1
Chloroform	ND		mg/kg	0.0014	0.00013	1
Carbon tetrachloride	ND		mg/kg	0.00095	0.00022	1
1,1,1-Trichloroethane	ND		mg/kg	0.00047	0.00016	1
2-Butanone	ND		mg/kg	0.0095	0.0021	1
Benzene	0.00025	J	mg/kg	0.00047	0.00016	1
1,2-Dichloroethane	ND		mg/kg	0.00095	0.00024	1
Methyl cyclohexane	ND		mg/kg	0.0038	0.00057	1
Trichloroethene	ND		mg/kg	0.00047	0.00013	1
1,2-Dichloropropane	ND		mg/kg	0.00095	0.00012	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-23 Date Collected: 10/16/25 08:05

Client ID: FROG-SS-120 (2-3.5) Date Received: 10/16/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00047	0.00010	1
1,4-Dioxane	ND		mg/kg	0.076	0.033	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00047	0.00015	1
Toluene	ND		mg/kg	0.00095	0.00052	1
4-Methyl-2-pentanone	ND		mg/kg	0.0095	0.0012	1
Tetrachloroethene	ND		mg/kg	0.00047	0.00019	1
trans-1,3-Dichloropropene	ND		mg/kg	0.00095	0.00026	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00047	0.00015	1
1,1,2-Trichloroethane	ND		mg/kg	0.00095	0.00025	1
Dibromochloromethane	ND		mg/kg	0.00095	0.00013	1
1,2-Dibromoethane	ND		mg/kg	0.00047	0.00028	1
2-Hexanone	ND		mg/kg	0.0095	0.0011	1
Chlorobenzene	ND		mg/kg	0.00047	0.00012	1
Ethylbenzene	0.00017	J	mg/kg	0.00095	0.00013	1
p/m-Xylene	ND		mg/kg	0.0019	0.00053	1
o-Xylene	ND		mg/kg	0.00095	0.00028	1
Xylenes, Total	ND		mg/kg	0.00095	0.00028	1
Styrene	ND		mg/kg	0.00095	0.00019	1
Bromoform	ND		mg/kg	0.0038	0.00023	1
Isopropylbenzene	ND		mg/kg	0.00095	0.00010	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00047	0.00016	1
1,3-Dichlorobenzene	ND		mg/kg	0.0019	0.00014	1
1,4-Dichlorobenzene	ND		mg/kg	0.0019	0.00016	1
1,2-Dichlorobenzene	ND		mg/kg	0.0019	0.00014	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0028	0.00095	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0019	0.00026	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0019	0.00030	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	106		70-130

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-24
Client ID: FROG-SS-121 (0-2)
Sample Location: CARLISLE, PA

Date Collected: 10/16/25 09:06
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 10/30/25 12:46
Analyst: MNF
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.010	0.00094	1
Chloromethane	ND		mg/kg	0.0041	0.00096	1
Vinyl chloride	ND		mg/kg	0.0010	0.00034	1
Bromomethane	ND		mg/kg	0.0021	0.00060	1
Chloroethane	ND		mg/kg	0.0021	0.00047	1
Trichlorofluoromethane	ND		mg/kg	0.0041	0.00072	1
1,1-Dichloroethene	ND		mg/kg	0.0010	0.00024	1
Carbon disulfide	ND		mg/kg	0.010	0.0047	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0041	0.00071	1
Methylene chloride	ND		mg/kg	0.0052	0.0024	1
Acetone	ND		mg/kg	0.026	0.010	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0015	0.00014	1
Methyl Acetate	ND		mg/kg	0.0041	0.00098	1
Methyl tert butyl ether	ND		mg/kg	0.0021	0.00021	1
1,1-Dichloroethane	ND		mg/kg	0.0010	0.00015	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0010	0.00018	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0010	0.00014	1
Cyclohexane	ND		mg/kg	0.010	0.00056	1
Bromochloromethane	ND		mg/kg	0.0021	0.00021	1
Chloroform	ND		mg/kg	0.0015	0.00014	1
Carbon tetrachloride	ND		mg/kg	0.0010	0.00024	1
1,1,1-Trichloroethane	ND		mg/kg	0.00052	0.00017	1
2-Butanone	ND		mg/kg	0.010	0.0023	1
Benzene	ND		mg/kg	0.00052	0.00017	1
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00026	1
Methyl cyclohexane	ND		mg/kg	0.0041	0.00062	1
Trichloroethene	ND		mg/kg	0.00052	0.00014	1
1,2-Dichloropropane	ND		mg/kg	0.0010	0.00013	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-24 Date Collected: 10/16/25 09:06

Client ID: FROG-SS-121 (0-2) Date Received: 10/16/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00052	0.00011	1
1,4-Dioxane	ND		mg/kg	0.082	0.036	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00052	0.00016	1
Toluene	ND		mg/kg	0.0010	0.00056	1
4-Methyl-2-pentanone	ND		mg/kg	0.010	0.0013	1
Tetrachloroethene	ND		mg/kg	0.00052	0.00020	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00028	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00052	0.00016	1
1,1,2-Trichloroethane	ND		mg/kg	0.0010	0.00028	1
Dibromochloromethane	ND		mg/kg	0.0010	0.00014	1
1,2-Dibromoethane	ND		mg/kg	0.00052	0.00030	1
2-Hexanone	ND		mg/kg	0.010	0.0012	1
Chlorobenzene	ND		mg/kg	0.00052	0.00013	1
Ethylbenzene	ND		mg/kg	0.0010	0.00014	1
p/m-Xylene	ND		mg/kg	0.0021	0.00058	1
o-Xylene	ND		mg/kg	0.0010	0.00030	1
Xylenes, Total	ND		mg/kg	0.0010	0.00030	1
Styrene	ND		mg/kg	0.0010	0.00020	1
Bromoform	ND		mg/kg	0.0041	0.00025	1
Isopropylbenzene	ND		mg/kg	0.0010	0.00011	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00052	0.00017	1
1,3-Dichlorobenzene	ND		mg/kg	0.0021	0.00015	1
1,4-Dichlorobenzene	ND		mg/kg	0.0021	0.00018	1
1,2-Dichlorobenzene	ND		mg/kg	0.0021	0.00015	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0031	0.0010	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0021	0.00028	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0021	0.00033	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	110		70-130

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-25
Client ID: FROG-SS-121 (22-24)
Sample Location: CARLISLE, PA
Date Collected: 10/16/25 09:16
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 10/30/25 16:26
Analyst: MNF
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.012	0.0011	1
Chloromethane	ND		mg/kg	0.0050	0.0012	1
Vinyl chloride	ND		mg/kg	0.0012	0.00042	1
Bromomethane	ND		mg/kg	0.0025	0.00073	1
Chloroethane	ND		mg/kg	0.0025	0.00057	1
Trichlorofluoromethane	ND		mg/kg	0.0050	0.00087	1
1,1-Dichloroethene	ND		mg/kg	0.0012	0.00030	1
Carbon disulfide	ND		mg/kg	0.012	0.0057	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0050	0.00087	1
Methylene chloride	ND		mg/kg	0.0063	0.0029	1
Acetone	ND		mg/kg	0.031	0.012	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0019	0.00017	1
Methyl Acetate	ND		mg/kg	0.0050	0.0012	1
Methyl tert butyl ether	ND		mg/kg	0.0025	0.00025	1
1,1-Dichloroethane	ND		mg/kg	0.0012	0.00018	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0012	0.00022	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0012	0.00017	1
Cyclohexane	ND		mg/kg	0.012	0.00068	1
Bromochloromethane	ND		mg/kg	0.0025	0.00026	1
Chloroform	ND		mg/kg	0.0019	0.00018	1
Carbon tetrachloride	ND		mg/kg	0.0012	0.00029	1
1,1,1-Trichloroethane	ND		mg/kg	0.00063	0.00021	1
2-Butanone	ND		mg/kg	0.012	0.0028	1
Benzene	ND		mg/kg	0.00063	0.00021	1
1,2-Dichloroethane	ND		mg/kg	0.0012	0.00032	1
Methyl cyclohexane	ND		mg/kg	0.0050	0.00076	1
Trichloroethene	ND		mg/kg	0.00063	0.00017	1
1,2-Dichloropropane	ND		mg/kg	0.0012	0.00016	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-25 Date Collected: 10/16/25 09:16

Client ID: FROG-SS-121 (22-24) Date Received: 10/16/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00063	0.00014	1
1,4-Dioxane	ND		mg/kg	0.10	0.044	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00063	0.00020	1
Toluene	ND		mg/kg	0.0012	0.00068	1
4-Methyl-2-pentanone	ND		mg/kg	0.012	0.0016	1
Tetrachloroethene	ND		mg/kg	0.00063	0.00024	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0012	0.00034	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00063	0.00020	1
1,1,2-Trichloroethane	ND		mg/kg	0.0012	0.00033	1
Dibromochloromethane	ND		mg/kg	0.0012	0.00018	1
1,2-Dibromoethane	ND		mg/kg	0.00063	0.00037	1
2-Hexanone	ND		mg/kg	0.012	0.0015	1
Chlorobenzene	ND		mg/kg	0.00063	0.00016	1
Ethylbenzene	ND		mg/kg	0.0012	0.00018	1
p/m-Xylene	ND		mg/kg	0.0025	0.00070	1
o-Xylene	ND		mg/kg	0.0012	0.00036	1
Xylenes, Total	ND		mg/kg	0.0012	0.00036	1
Styrene	ND		mg/kg	0.0012	0.00024	1
Bromoform	ND		mg/kg	0.0050	0.00031	1
Isopropylbenzene	ND		mg/kg	0.0012	0.00014	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00063	0.00021	1
1,3-Dichlorobenzene	ND		mg/kg	0.0025	0.00018	1
1,4-Dichlorobenzene	ND		mg/kg	0.0025	0.00021	1
1,2-Dichlorobenzene	ND		mg/kg	0.0025	0.00018	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0038	0.0012	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0025	0.00034	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0025	0.00040	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	125		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	114		70-130

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-26
Client ID: FROG-SS-DUP-102
Sample Location: CARLISLE, PA

Date Collected: 10/16/25 00:00
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 10/30/25 13:13
Analyst: MNF
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.011	0.0010	1
Chloromethane	ND		mg/kg	0.0046	0.0011	1
Vinyl chloride	ND		mg/kg	0.0011	0.00038	1
Bromomethane	ND		mg/kg	0.0023	0.00066	1
Chloroethane	ND		mg/kg	0.0023	0.00052	1
Trichlorofluoromethane	ND		mg/kg	0.0046	0.00079	1
1,1-Dichloroethene	ND		mg/kg	0.0011	0.00027	1
Carbon disulfide	ND		mg/kg	0.011	0.0052	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0046	0.00079	1
Methylene chloride	ND		mg/kg	0.0057	0.0026	1
Acetone	ND		mg/kg	0.028	0.011	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0017	0.00016	1
Methyl Acetate	ND		mg/kg	0.0046	0.0011	1
Methyl tert butyl ether	ND		mg/kg	0.0023	0.00023	1
1,1-Dichloroethane	ND		mg/kg	0.0011	0.00016	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0011	0.00020	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0011	0.00016	1
Cyclohexane	ND		mg/kg	0.011	0.00062	1
Bromochloromethane	ND		mg/kg	0.0023	0.00023	1
Chloroform	0.00021	J	mg/kg	0.0017	0.00016	1
Carbon tetrachloride	ND		mg/kg	0.0011	0.00026	1
1,1,1-Trichloroethane	ND		mg/kg	0.00057	0.00019	1
2-Butanone	ND		mg/kg	0.011	0.0025	1
Benzene	ND		mg/kg	0.00057	0.00019	1
1,2-Dichloroethane	ND		mg/kg	0.0011	0.00029	1
Methyl cyclohexane	ND		mg/kg	0.0046	0.00069	1
Trichloroethene	ND		mg/kg	0.00057	0.00016	1
1,2-Dichloropropane	ND		mg/kg	0.0011	0.00014	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-26 Date Collected: 10/16/25 00:00

Client ID: FROG-SS-DUP-102 Date Received: 10/16/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00057	0.00012	1
1,4-Dioxane	ND		mg/kg	0.091	0.040	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00057	0.00018	1
Toluene	ND		mg/kg	0.0011	0.00062	1
4-Methyl-2-pentanone	ND		mg/kg	0.011	0.0015	1
Tetrachloroethene	ND		mg/kg	0.00057	0.00022	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0011	0.00031	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00057	0.00018	1
1,1,2-Trichloroethane	ND		mg/kg	0.0011	0.00030	1
Dibromochloromethane	ND		mg/kg	0.0011	0.00016	1
1,2-Dibromoethane	ND		mg/kg	0.00057	0.00033	1
2-Hexanone	ND		mg/kg	0.011	0.0013	1
Chlorobenzene	ND		mg/kg	0.00057	0.00014	1
Ethylbenzene	ND		mg/kg	0.0011	0.00016	1
p/m-Xylene	ND		mg/kg	0.0023	0.00064	1
o-Xylene	ND		mg/kg	0.0011	0.00033	1
Xylenes, Total	ND		mg/kg	0.0011	0.00033	1
Styrene	ND		mg/kg	0.0011	0.00022	1
Bromoform	ND		mg/kg	0.0046	0.00028	1
Isopropylbenzene	ND		mg/kg	0.0011	0.00012	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00057	0.00019	1
1,3-Dichlorobenzene	ND		mg/kg	0.0023	0.00017	1
1,4-Dichlorobenzene	ND		mg/kg	0.0023	0.00020	1
1,2-Dichlorobenzene	ND		mg/kg	0.0023	0.00016	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0034	0.0011	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0023	0.00031	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0023	0.00037	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	115		70-130

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-27
Client ID: FROG-SS-FB-102
Sample Location: CARLISLE, PA
Date Collected: 10/16/25 13:10
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 10/21/25 10:51
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-27 Date Collected: 10/16/25 13:10

Client ID: FROG-SS-FB-102 Date Received: 10/16/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	114		70-130

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-27
Client ID: FROG-SS-FB-102
Sample Location: CARLISLE, PA
Date Collected: 10/16/25 13:10
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 10/21/25 10:51
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
4-Bromofluorobenzene	88		70-130

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-28 Date Collected: 10/17/25 12:40

Client ID: FROG-SS-101 (0-2) Date Received: 10/17/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260D

Analytical Date: 10/30/25 13:41

Analyst: MNF

Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.011	0.0010	1
Chloromethane	ND		mg/kg	0.0044	0.0010	1
Vinyl chloride	ND		mg/kg	0.0011	0.00037	1
Bromomethane	ND		mg/kg	0.0022	0.00065	1
Chloroethane	ND		mg/kg	0.0022	0.00050	1
Trichlorofluoromethane	ND		mg/kg	0.0044	0.00077	1
1,1-Dichloroethene	ND		mg/kg	0.0011	0.00026	1
Carbon disulfide	ND		mg/kg	0.011	0.0051	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0044	0.00077	1
Methylene chloride	ND		mg/kg	0.0056	0.0026	1
Acetone	ND		mg/kg	0.028	0.011	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0017	0.00015	1
Methyl Acetate	ND		mg/kg	0.0044	0.0010	1
Methyl tert butyl ether	ND		mg/kg	0.0022	0.00022	1
1,1-Dichloroethane	ND		mg/kg	0.0011	0.00016	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0011	0.00020	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0011	0.00015	1
Cyclohexane	ND		mg/kg	0.011	0.00061	1
Bromochloromethane	ND		mg/kg	0.0022	0.00023	1
Chloroform	0.00018	J	mg/kg	0.0017	0.00016	1
Carbon tetrachloride	ND		mg/kg	0.0011	0.00026	1
1,1,1-Trichloroethane	ND		mg/kg	0.00056	0.00019	1
2-Butanone	ND		mg/kg	0.011	0.0025	1
Benzene	ND		mg/kg	0.00056	0.00018	1
1,2-Dichloroethane	ND		mg/kg	0.0011	0.00029	1
Methyl cyclohexane	ND		mg/kg	0.0044	0.00067	1
Trichloroethene	ND		mg/kg	0.00056	0.00015	1
1,2-Dichloropropane	ND		mg/kg	0.0011	0.00014	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-28 Date Collected: 10/17/25 12:40

Client ID: FROG-SS-101 (0-2) Date Received: 10/17/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00056	0.00012	1
1,4-Dioxane	ND		mg/kg	0.089	0.039	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00056	0.00018	1
Toluene	ND		mg/kg	0.0011	0.00060	1
4-Methyl-2-pentanone	ND		mg/kg	0.011	0.0014	1
Tetrachloroethene	ND		mg/kg	0.00056	0.00022	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0011	0.00030	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00056	0.00018	1
1,1,2-Trichloroethane	ND		mg/kg	0.0011	0.00030	1
Dibromochloromethane	ND		mg/kg	0.0011	0.00016	1
1,2-Dibromoethane	ND		mg/kg	0.00056	0.00033	1
2-Hexanone	ND		mg/kg	0.011	0.0013	1
Chlorobenzene	ND		mg/kg	0.00056	0.00014	1
Ethylbenzene	ND		mg/kg	0.0011	0.00016	1
p/m-Xylene	ND		mg/kg	0.0022	0.00062	1
o-Xylene	ND		mg/kg	0.0011	0.00032	1
Xylenes, Total	ND		mg/kg	0.0011	0.00032	1
Styrene	ND		mg/kg	0.0011	0.00022	1
Bromoform	ND		mg/kg	0.0044	0.00027	1
Isopropylbenzene	ND		mg/kg	0.0011	0.00012	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00056	0.00018	1
1,3-Dichlorobenzene	ND		mg/kg	0.0022	0.00016	1
1,4-Dichlorobenzene	ND		mg/kg	0.0022	0.00019	1
1,2-Dichlorobenzene	ND		mg/kg	0.0022	0.00016	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0033	0.0011	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0022	0.00030	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0022	0.00036	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	118		70-130

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-29 Date Collected: 10/17/25 12:41

Client ID: FROG-SS-101 (3-5) Date Received: 10/17/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260D

Analytical Date: 10/30/25 14:08

Analyst: MNF

Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.011	0.0010	1
Chloromethane	ND		mg/kg	0.0044	0.0010	1
Vinyl chloride	ND		mg/kg	0.0011	0.00036	1
Bromomethane	ND		mg/kg	0.0022	0.00063	1
Chloroethane	ND		mg/kg	0.0022	0.00049	1
Trichlorofluoromethane	ND		mg/kg	0.0044	0.00076	1
1,1-Dichloroethene	ND		mg/kg	0.0011	0.00026	1
Carbon disulfide	ND		mg/kg	0.011	0.0050	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0044	0.00076	1
Methylene chloride	ND		mg/kg	0.0055	0.0025	1
Acetone	ND		mg/kg	0.027	0.011	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0016	0.00015	1
Methyl Acetate	ND		mg/kg	0.0044	0.0010	1
Methyl tert butyl ether	ND		mg/kg	0.0022	0.00022	1
1,1-Dichloroethane	ND		mg/kg	0.0011	0.00016	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0011	0.00019	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0011	0.00015	1
Cyclohexane	ND		mg/kg	0.011	0.00059	1
Bromochloromethane	ND		mg/kg	0.0022	0.00022	1
Chloroform	0.00017	J	mg/kg	0.0016	0.00015	1
Carbon tetrachloride	ND		mg/kg	0.0011	0.00025	1
1,1,1-Trichloroethane	ND		mg/kg	0.00055	0.00018	1
2-Butanone	ND		mg/kg	0.011	0.0024	1
Benzene	ND		mg/kg	0.00055	0.00018	1
1,2-Dichloroethane	ND		mg/kg	0.0011	0.00028	1
Methyl cyclohexane	ND		mg/kg	0.0044	0.00066	1
Trichloroethene	ND		mg/kg	0.00055	0.00015	1
1,2-Dichloropropane	ND		mg/kg	0.0011	0.00014	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-29 Date Collected: 10/17/25 12:41

Client ID: FROG-SS-101 (3-5) Date Received: 10/17/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00055	0.00012	1
1,4-Dioxane	ND		mg/kg	0.087	0.038	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00055	0.00017	1
Toluene	ND		mg/kg	0.0011	0.00059	1
4-Methyl-2-pentanone	ND		mg/kg	0.011	0.0014	1
Tetrachloroethene	ND		mg/kg	0.00055	0.00021	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0011	0.00030	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00055	0.00017	1
1,1,2-Trichloroethane	ND		mg/kg	0.0011	0.00029	1
Dibromochloromethane	ND		mg/kg	0.0011	0.00015	1
1,2-Dibromoethane	ND		mg/kg	0.00055	0.00032	1
2-Hexanone	ND		mg/kg	0.011	0.0013	1
Chlorobenzene	ND		mg/kg	0.00055	0.00014	1
Ethylbenzene	ND		mg/kg	0.0011	0.00015	1
p/m-Xylene	ND		mg/kg	0.0022	0.00061	1
o-Xylene	ND		mg/kg	0.0011	0.00032	1
Xylenes, Total	ND		mg/kg	0.0011	0.00032	1
Styrene	ND		mg/kg	0.0011	0.00021	1
Bromoform	ND		mg/kg	0.0044	0.00027	1
Isopropylbenzene	ND		mg/kg	0.0011	0.00012	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00055	0.00018	1
1,3-Dichlorobenzene	ND		mg/kg	0.0022	0.00016	1
1,4-Dichlorobenzene	ND		mg/kg	0.0022	0.00019	1
1,2-Dichlorobenzene	ND		mg/kg	0.0022	0.00016	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0033	0.0011	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0022	0.00030	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0022	0.00035	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	118		70-130

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-30 Date Collected: 10/17/25 13:45

Client ID: FROG-SS-102 (0-2) Date Received: 10/17/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260D

Analytical Date: 10/30/25 14:35

Analyst: MNF

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.0095	0.00087	1
Chloromethane	ND		mg/kg	0.0038	0.00088	1
Vinyl chloride	ND		mg/kg	0.00095	0.00032	1
Bromomethane	ND		mg/kg	0.0019	0.00055	1
Chloroethane	ND		mg/kg	0.0019	0.00043	1
Trichlorofluoromethane	ND		mg/kg	0.0038	0.00066	1
1,1-Dichloroethene	ND		mg/kg	0.00095	0.00023	1
Carbon disulfide	ND		mg/kg	0.0095	0.0043	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0038	0.00066	1
Methylene chloride	ND		mg/kg	0.0048	0.0022	1
Acetone	0.056		mg/kg	0.024	0.0095	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0014	0.00013	1
Methyl Acetate	ND		mg/kg	0.0038	0.00090	1
Methyl tert butyl ether	ND		mg/kg	0.0019	0.00019	1
1,1-Dichloroethane	ND		mg/kg	0.00095	0.00014	1
cis-1,2-Dichloroethene	ND		mg/kg	0.00095	0.00017	1
1,2-Dichloroethene, Total	ND		mg/kg	0.00095	0.00013	1
Cyclohexane	ND		mg/kg	0.0095	0.00052	1
Bromochloromethane	ND		mg/kg	0.0019	0.00019	1
Chloroform	0.00016	J	mg/kg	0.0014	0.00013	1
Carbon tetrachloride	ND		mg/kg	0.00095	0.00022	1
1,1,1-Trichloroethane	ND		mg/kg	0.00048	0.00016	1
2-Butanone	ND		mg/kg	0.0095	0.0021	1
Benzene	ND		mg/kg	0.00048	0.00016	1
1,2-Dichloroethane	ND		mg/kg	0.00095	0.00024	1
Methyl cyclohexane	ND		mg/kg	0.0038	0.00057	1
Trichloroethene	ND		mg/kg	0.00048	0.00013	1
1,2-Dichloropropane	ND		mg/kg	0.00095	0.00012	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-30 Date Collected: 10/17/25 13:45

Client ID: FROG-SS-102 (0-2) Date Received: 10/17/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00048	0.00010	1
1,4-Dioxane	ND		mg/kg	0.076	0.033	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00048	0.00015	1
Toluene	ND		mg/kg	0.00095	0.00052	1
4-Methyl-2-pentanone	ND		mg/kg	0.0095	0.0012	1
Tetrachloroethene	ND		mg/kg	0.00048	0.00019	1
trans-1,3-Dichloropropene	ND		mg/kg	0.00095	0.00026	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00048	0.00015	1
1,1,2-Trichloroethane	ND		mg/kg	0.00095	0.00025	1
Dibromochloromethane	ND		mg/kg	0.00095	0.00013	1
1,2-Dibromoethane	ND		mg/kg	0.00048	0.00028	1
2-Hexanone	ND		mg/kg	0.0095	0.0011	1
Chlorobenzene	ND		mg/kg	0.00048	0.00012	1
Ethylbenzene	ND		mg/kg	0.00095	0.00013	1
p/m-Xylene	ND		mg/kg	0.0019	0.00053	1
o-Xylene	ND		mg/kg	0.00095	0.00028	1
Xylenes, Total	ND		mg/kg	0.00095	0.00028	1
Styrene	ND		mg/kg	0.00095	0.00019	1
Bromoform	ND		mg/kg	0.0038	0.00023	1
Isopropylbenzene	ND		mg/kg	0.00095	0.00010	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00048	0.00016	1
1,3-Dichlorobenzene	ND		mg/kg	0.0019	0.00014	1
1,4-Dichlorobenzene	ND		mg/kg	0.0019	0.00016	1
1,2-Dichlorobenzene	ND		mg/kg	0.0019	0.00014	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0028	0.00095	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0019	0.00026	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0019	0.00030	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	120		70-130

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-31 Date Collected: 10/17/25 13:51

Client ID: FROG-SS-102 (19-21) Date Received: 10/17/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260D

Analytical Date: 10/30/25 15:03

Analyst: MNF

Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.010	0.00096	1
Chloromethane	ND		mg/kg	0.0042	0.00098	1
Vinyl chloride	ND		mg/kg	0.0010	0.00035	1
Bromomethane	ND		mg/kg	0.0021	0.00061	1
Chloroethane	ND		mg/kg	0.0021	0.00048	1
Trichlorofluoromethane	ND		mg/kg	0.0042	0.00073	1
1,1-Dichloroethene	ND		mg/kg	0.0010	0.00025	1
Carbon disulfide	ND		mg/kg	0.010	0.0048	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0042	0.00073	1
Methylene chloride	ND		mg/kg	0.0053	0.0024	1
Acetone	ND		mg/kg	0.026	0.010	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0016	0.00014	1
Methyl Acetate	ND		mg/kg	0.0042	0.0010	1
Methyl tert butyl ether	ND		mg/kg	0.0021	0.00021	1
1,1-Dichloroethane	ND		mg/kg	0.0010	0.00015	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0010	0.00018	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0010	0.00014	1
Cyclohexane	ND		mg/kg	0.010	0.00057	1
Bromochloromethane	ND		mg/kg	0.0021	0.00022	1
Chloroform	0.00040	J	mg/kg	0.0016	0.00015	1
Carbon tetrachloride	ND		mg/kg	0.0010	0.00024	1
1,1,1-Trichloroethane	ND		mg/kg	0.00053	0.00018	1
2-Butanone	ND		mg/kg	0.010	0.0023	1
Benzene	ND		mg/kg	0.00053	0.00018	1
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00027	1
Methyl cyclohexane	ND		mg/kg	0.0042	0.00064	1
Trichloroethene	ND		mg/kg	0.00053	0.00014	1
1,2-Dichloropropane	ND		mg/kg	0.0010	0.00013	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-31 Date Collected: 10/17/25 13:51

Client ID: FROG-SS-102 (19-21) Date Received: 10/17/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00053	0.00012	1
1,4-Dioxane	ND		mg/kg	0.084	0.037	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00053	0.00017	1
Toluene	ND		mg/kg	0.0010	0.00057	1
4-Methyl-2-pentanone	ND		mg/kg	0.010	0.0014	1
Tetrachloroethene	ND		mg/kg	0.00053	0.00021	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00029	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00053	0.00017	1
1,1,2-Trichloroethane	ND		mg/kg	0.0010	0.00028	1
Dibromochloromethane	ND		mg/kg	0.0010	0.00015	1
1,2-Dibromoethane	ND		mg/kg	0.00053	0.00031	1
2-Hexanone	ND		mg/kg	0.010	0.0012	1
Chlorobenzene	ND		mg/kg	0.00053	0.00013	1
Ethylbenzene	ND		mg/kg	0.0010	0.00015	1
p/m-Xylene	ND		mg/kg	0.0021	0.00059	1
o-Xylene	ND		mg/kg	0.0010	0.00031	1
Xylenes, Total	ND		mg/kg	0.0010	0.00031	1
Styrene	ND		mg/kg	0.0010	0.00021	1
Bromoform	ND		mg/kg	0.0042	0.00026	1
Isopropylbenzene	ND		mg/kg	0.0010	0.00012	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00053	0.00018	1
1,3-Dichlorobenzene	ND		mg/kg	0.0021	0.00016	1
1,4-Dichlorobenzene	ND		mg/kg	0.0021	0.00018	1
1,2-Dichlorobenzene	ND		mg/kg	0.0021	0.00015	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0032	0.0010	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0021	0.00029	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0021	0.00034	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	122		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	125		70-130

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-32
Client ID: FROG-SS-115 (0-2)
Sample Location: CARLISLE, PA
Date Collected: 10/17/25 10:43
Date Received: 10/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 10/30/25 15:30
Analyst: MNF
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.013	0.0012	1
Chloromethane	ND		mg/kg	0.0053	0.0012	1
Vinyl chloride	ND		mg/kg	0.0013	0.00045	1
Bromomethane	ND		mg/kg	0.0027	0.00078	1
Chloroethane	ND		mg/kg	0.0027	0.00060	1
Trichlorofluoromethane	ND		mg/kg	0.0053	0.00093	1
1,1-Dichloroethene	ND		mg/kg	0.0013	0.00032	1
Carbon disulfide	ND		mg/kg	0.013	0.0061	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0053	0.00092	1
Methylene chloride	ND		mg/kg	0.0067	0.0030	1
Acetone	ND		mg/kg	0.033	0.013	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0020	0.00018	1
Methyl Acetate	ND		mg/kg	0.0053	0.0013	1
Methyl tert butyl ether	ND		mg/kg	0.0027	0.00027	1
1,1-Dichloroethane	ND		mg/kg	0.0013	0.00019	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0013	0.00023	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0013	0.00018	1
Cyclohexane	ND		mg/kg	0.013	0.00073	1
Bromochloromethane	ND		mg/kg	0.0027	0.00027	1
Chloroform	ND		mg/kg	0.0020	0.00019	1
Carbon tetrachloride	ND		mg/kg	0.0013	0.00031	1
1,1,1-Trichloroethane	ND		mg/kg	0.00067	0.00022	1
2-Butanone	ND		mg/kg	0.013	0.0030	1
Benzene	ND		mg/kg	0.00067	0.00022	1
1,2-Dichloroethane	ND		mg/kg	0.0013	0.00034	1
Methyl cyclohexane	ND		mg/kg	0.0053	0.00080	1
Trichloroethene	ND		mg/kg	0.00067	0.00018	1
1,2-Dichloropropane	ND		mg/kg	0.0013	0.00017	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-32 Date Collected: 10/17/25 10:43

Client ID: FROG-SS-115 (0-2) Date Received: 10/17/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00067	0.00014	1
1,4-Dioxane	ND		mg/kg	0.11	0.047	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00067	0.00021	1
Toluene	ND		mg/kg	0.0013	0.00072	1
4-Methyl-2-pentanone	ND		mg/kg	0.013	0.0017	1
Tetrachloroethene	ND		mg/kg	0.00067	0.00026	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0013	0.00036	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00067	0.00021	1
1,1,2-Trichloroethane	ND		mg/kg	0.0013	0.00036	1
Dibromochloromethane	ND		mg/kg	0.0013	0.00019	1
1,2-Dibromoethane	ND		mg/kg	0.00067	0.00039	1
2-Hexanone	ND		mg/kg	0.013	0.0016	1
Chlorobenzene	ND		mg/kg	0.00067	0.00017	1
Ethylbenzene	ND		mg/kg	0.0013	0.00019	1
p/m-Xylene	ND		mg/kg	0.0027	0.00075	1
o-Xylene	ND		mg/kg	0.0013	0.00039	1
Xylenes, Total	ND		mg/kg	0.0013	0.00039	1
Styrene	ND		mg/kg	0.0013	0.00026	1
Bromoform	ND		mg/kg	0.0053	0.00033	1
Isopropylbenzene	ND		mg/kg	0.0013	0.00014	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00067	0.00022	1
1,3-Dichlorobenzene	ND		mg/kg	0.0027	0.00020	1
1,4-Dichlorobenzene	ND		mg/kg	0.0027	0.00023	1
1,2-Dichlorobenzene	ND		mg/kg	0.0027	0.00019	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0040	0.0013	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0027	0.00036	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0027	0.00043	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	125		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	126		70-130

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-33
Client ID: FROG-SS-115 (7.5-9.5)
Sample Location: CARLISLE, PA

Date Collected: 10/17/25 10:45
Date Received: 10/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 10/30/25 15:58
Analyst: MNF
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.014	0.0013	1
Chloromethane	ND		mg/kg	0.0057	0.0013	1
Vinyl chloride	ND		mg/kg	0.0014	0.00048	1
Bromomethane	ND		mg/kg	0.0028	0.00083	1
Chloroethane	ND		mg/kg	0.0028	0.00064	1
Trichlorofluoromethane	ND		mg/kg	0.0057	0.00099	1
1,1-Dichloroethene	ND		mg/kg	0.0014	0.00034	1
Carbon disulfide	ND		mg/kg	0.014	0.0065	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0057	0.00098	1
Methylene chloride	ND		mg/kg	0.0071	0.0032	1
Acetone	ND		mg/kg	0.036	0.014	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0021	0.00019	1
Methyl Acetate	ND		mg/kg	0.0057	0.0014	1
Methyl tert butyl ether	ND		mg/kg	0.0028	0.00028	1
1,1-Dichloroethane	ND		mg/kg	0.0014	0.00021	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0014	0.00025	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0014	0.00019	1
Cyclohexane	ND		mg/kg	0.014	0.00077	1
Bromochloromethane	ND		mg/kg	0.0028	0.00029	1
Chloroform	0.00026	J	mg/kg	0.0021	0.00020	1
Carbon tetrachloride	ND		mg/kg	0.0014	0.00033	1
1,1,1-Trichloroethane	ND		mg/kg	0.00071	0.00024	1
2-Butanone	ND		mg/kg	0.014	0.0032	1
Benzene	ND		mg/kg	0.00071	0.00024	1
1,2-Dichloroethane	ND		mg/kg	0.0014	0.00036	1
Methyl cyclohexane	ND		mg/kg	0.0057	0.00086	1
Trichloroethene	ND		mg/kg	0.00071	0.00019	1
1,2-Dichloropropane	ND		mg/kg	0.0014	0.00018	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-33 Date Collected: 10/17/25 10:45

Client ID: FROG-SS-115 (7.5-9.5) Date Received: 10/17/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00071	0.00016	1
1,4-Dioxane	ND		mg/kg	0.11	0.050	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00071	0.00022	1
Toluene	ND		mg/kg	0.0014	0.00077	1
4-Methyl-2-pentanone	ND		mg/kg	0.014	0.0018	1
Tetrachloroethene	ND		mg/kg	0.00071	0.00028	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0014	0.00039	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00071	0.00022	1
1,1,2-Trichloroethane	ND		mg/kg	0.0014	0.00038	1
Dibromochloromethane	ND		mg/kg	0.0014	0.00020	1
1,2-Dibromoethane	ND		mg/kg	0.00071	0.00042	1
2-Hexanone	ND		mg/kg	0.014	0.0017	1
Chlorobenzene	ND		mg/kg	0.00071	0.00018	1
Ethylbenzene	ND		mg/kg	0.0014	0.00020	1
p/m-Xylene	ND		mg/kg	0.0028	0.00080	1
o-Xylene	ND		mg/kg	0.0014	0.00041	1
Xylenes, Total	ND		mg/kg	0.0014	0.00041	1
Styrene	ND		mg/kg	0.0014	0.00028	1
Bromoform	ND		mg/kg	0.0057	0.00035	1
Isopropylbenzene	ND		mg/kg	0.0014	0.00016	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00071	0.00024	1
1,3-Dichlorobenzene	ND		mg/kg	0.0028	0.00021	1
1,4-Dichlorobenzene	ND		mg/kg	0.0028	0.00024	1
1,2-Dichlorobenzene	ND		mg/kg	0.0028	0.00020	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0043	0.0014	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0028	0.00039	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0028	0.00046	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	130		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	128		70-130

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-34 Date Collected: 10/17/25 09:42

Client ID: FROG-SS-116 (0-2) Date Received: 10/17/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260D

Analytical Date: 10/30/25 16:25

Analyst: MNF

Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.0097	0.00089	1
Chloromethane	ND		mg/kg	0.0039	0.00091	1
Vinyl chloride	ND		mg/kg	0.00097	0.00033	1
Bromomethane	ND		mg/kg	0.0019	0.00057	1
Chloroethane	ND		mg/kg	0.0019	0.00044	1
Trichlorofluoromethane	ND		mg/kg	0.0039	0.00068	1
1,1-Dichloroethene	ND		mg/kg	0.00097	0.00023	1
Carbon disulfide	ND		mg/kg	0.0097	0.0044	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0039	0.00068	1
Methylene chloride	ND		mg/kg	0.0049	0.0022	1
Acetone	ND		mg/kg	0.024	0.0097	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0015	0.00013	1
Methyl Acetate	ND		mg/kg	0.0039	0.00092	1
Methyl tert butyl ether	ND		mg/kg	0.0019	0.00020	1
1,1-Dichloroethane	ND		mg/kg	0.00097	0.00014	1
cis-1,2-Dichloroethene	ND		mg/kg	0.00097	0.00017	1
1,2-Dichloroethene, Total	ND		mg/kg	0.00097	0.00013	1
Cyclohexane	ND		mg/kg	0.0097	0.00053	1
Bromochloromethane	ND		mg/kg	0.0019	0.00020	1
Chloroform	0.00017	J	mg/kg	0.0015	0.00014	1
Carbon tetrachloride	ND		mg/kg	0.00097	0.00022	1
1,1,1-Trichloroethane	ND		mg/kg	0.00049	0.00016	1
2-Butanone	ND		mg/kg	0.0097	0.0022	1
Benzene	0.00016	J	mg/kg	0.00049	0.00016	1
1,2-Dichloroethane	ND		mg/kg	0.00097	0.00025	1
Methyl cyclohexane	ND		mg/kg	0.0039	0.00059	1
Trichloroethene	ND		mg/kg	0.00049	0.00013	1
1,2-Dichloropropane	ND		mg/kg	0.00097	0.00012	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-34 Date Collected: 10/17/25 09:42

Client ID: FROG-SS-116 (0-2) Date Received: 10/17/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00049	0.00011	1
1,4-Dioxane	ND		mg/kg	0.078	0.034	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00049	0.00015	1
Toluene	ND		mg/kg	0.00097	0.00053	1
4-Methyl-2-pentanone	ND		mg/kg	0.0097	0.0012	1
Tetrachloroethene	ND		mg/kg	0.00049	0.00019	1
trans-1,3-Dichloropropene	ND		mg/kg	0.00097	0.00027	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00049	0.00015	1
1,1,2-Trichloroethane	ND		mg/kg	0.00097	0.00026	1
Dibromochloromethane	ND		mg/kg	0.00097	0.00014	1
1,2-Dibromoethane	ND		mg/kg	0.00049	0.00028	1
2-Hexanone	ND		mg/kg	0.0097	0.0012	1
Chlorobenzene	ND		mg/kg	0.00049	0.00012	1
Ethylbenzene	ND		mg/kg	0.00097	0.00014	1
p/m-Xylene	ND		mg/kg	0.0019	0.00054	1
o-Xylene	ND		mg/kg	0.00097	0.00028	1
Xylenes, Total	ND		mg/kg	0.00097	0.00028	1
Styrene	ND		mg/kg	0.00097	0.00019	1
Bromoform	ND		mg/kg	0.0039	0.00024	1
Isopropylbenzene	ND		mg/kg	0.00097	0.00011	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00049	0.00016	1
1,3-Dichlorobenzene	ND		mg/kg	0.0019	0.00014	1
1,4-Dichlorobenzene	ND		mg/kg	0.0019	0.00017	1
1,2-Dichlorobenzene	ND		mg/kg	0.0019	0.00014	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0029	0.00097	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0019	0.00026	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0019	0.00031	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	127		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	129		70-130

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-35 Date Collected: 10/17/25 09:44

Client ID: FROG-SS-116 (18.5-20.5) Date Received: 10/17/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260D

Analytical Date: 10/30/25 16:53

Analyst: MNF

Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.011	0.00097	1
Chloromethane	ND		mg/kg	0.0042	0.00099	1
Vinyl chloride	ND		mg/kg	0.0011	0.00036	1
Bromomethane	ND		mg/kg	0.0021	0.00062	1
Chloroethane	ND		mg/kg	0.0021	0.00048	1
Trichlorofluoromethane	ND		mg/kg	0.0042	0.00074	1
1,1-Dichloroethene	ND		mg/kg	0.0011	0.00025	1
Carbon disulfide	ND		mg/kg	0.011	0.0048	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0042	0.00074	1
Methylene chloride	ND		mg/kg	0.0053	0.0024	1
Acetone	ND		mg/kg	0.027	0.011	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0016	0.00014	1
Methyl Acetate	ND		mg/kg	0.0042	0.0010	1
Methyl tert butyl ether	ND		mg/kg	0.0021	0.00021	1
1,1-Dichloroethane	ND		mg/kg	0.0011	0.00015	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0011	0.00019	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0011	0.00014	1
Cyclohexane	ND		mg/kg	0.011	0.00058	1
Bromochloromethane	ND		mg/kg	0.0021	0.00022	1
Chloroform	0.00020	J	mg/kg	0.0016	0.00015	1
Carbon tetrachloride	ND		mg/kg	0.0011	0.00024	1
1,1,1-Trichloroethane	ND		mg/kg	0.00053	0.00018	1
2-Butanone	ND		mg/kg	0.011	0.0024	1
Benzene	ND		mg/kg	0.00053	0.00018	1
1,2-Dichloroethane	ND		mg/kg	0.0011	0.00027	1
Methyl cyclohexane	ND		mg/kg	0.0042	0.00064	1
Trichloroethene	ND		mg/kg	0.00053	0.00014	1
1,2-Dichloropropane	ND		mg/kg	0.0011	0.00013	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-35 Date Collected: 10/17/25 09:44

Client ID: FROG-SS-116 (18.5-20.5) Date Received: 10/17/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00053	0.00012	1
1,4-Dioxane	ND		mg/kg	0.085	0.037	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00053	0.00017	1
Toluene	ND		mg/kg	0.0011	0.00058	1
4-Methyl-2-pentanone	ND		mg/kg	0.011	0.0014	1
Tetrachloroethene	ND		mg/kg	0.00053	0.00021	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0011	0.00029	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00053	0.00017	1
1,1,2-Trichloroethane	ND		mg/kg	0.0011	0.00028	1
Dibromochloromethane	ND		mg/kg	0.0011	0.00015	1
1,2-Dibromoethane	ND		mg/kg	0.00053	0.00031	1
2-Hexanone	ND		mg/kg	0.011	0.0012	1
Chlorobenzene	ND		mg/kg	0.00053	0.00014	1
Ethylbenzene	ND		mg/kg	0.0011	0.00015	1
p/m-Xylene	ND		mg/kg	0.0021	0.00060	1
o-Xylene	ND		mg/kg	0.0011	0.00031	1
Xylenes, Total	ND		mg/kg	0.0011	0.00031	1
Styrene	ND		mg/kg	0.0011	0.00021	1
Bromoform	ND		mg/kg	0.0042	0.00026	1
Isopropylbenzene	ND		mg/kg	0.0011	0.00012	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00053	0.00018	1
1,3-Dichlorobenzene	ND		mg/kg	0.0021	0.00016	1
1,4-Dichlorobenzene	ND		mg/kg	0.0021	0.00018	1
1,2-Dichlorobenzene	ND		mg/kg	0.0021	0.00015	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0032	0.0011	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0021	0.00029	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0021	0.00034	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	**131**	Q	70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	**131**	Q	70-130

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-36 Date Collected: 10/17/25 08:14

Client ID: FROG-SS-117 (0-2) Date Received: 10/17/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260D

Analytical Date: 10/30/25 17:20

Analyst: MNF

Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.011	0.00098	1
Chloromethane	ND		mg/kg	0.0043	0.00099	1
Vinyl chloride	ND		mg/kg	0.0011	0.00036	1
Bromomethane	ND		mg/kg	0.0021	0.00062	1
Chloroethane	ND		mg/kg	0.0021	0.00048	1
Trichlorofluoromethane	ND		mg/kg	0.0043	0.00074	1
1,1-Dichloroethene	ND		mg/kg	0.0011	0.00025	1
Carbon disulfide	ND		mg/kg	0.011	0.0048	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0043	0.00074	1
Methylene chloride	ND		mg/kg	0.0053	0.0024	1
Acetone	ND		mg/kg	0.027	0.011	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0016	0.00015	1
Methyl Acetate	ND		mg/kg	0.0043	0.0010	1
Methyl tert butyl ether	ND		mg/kg	0.0021	0.00021	1
1,1-Dichloroethane	ND		mg/kg	0.0011	0.00015	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0011	0.00019	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0011	0.00015	1
Cyclohexane	ND		mg/kg	0.011	0.00058	1
Bromochloromethane	ND		mg/kg	0.0021	0.00022	1
Chloroform	0.00021	J	mg/kg	0.0016	0.00015	1
Carbon tetrachloride	ND		mg/kg	0.0011	0.00024	1
1,1,1-Trichloroethane	ND		mg/kg	0.00053	0.00018	1
2-Butanone	ND		mg/kg	0.011	0.0024	1
Benzene	0.00029	J	mg/kg	0.00053	0.00018	1
1,2-Dichloroethane	ND		mg/kg	0.0011	0.00027	1
Methyl cyclohexane	ND		mg/kg	0.0043	0.00064	1
Trichloroethene	ND		mg/kg	0.00053	0.00015	1
1,2-Dichloropropane	ND		mg/kg	0.0011	0.00013	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-36 Date Collected: 10/17/25 08:14

Client ID: FROG-SS-117 (0-2) Date Received: 10/17/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00053	0.00012	1
1,4-Dioxane	ND		mg/kg	0.085	0.037	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00053	0.00017	1
Toluene	ND		mg/kg	0.0011	0.00058	1
4-Methyl-2-pentanone	ND		mg/kg	0.011	0.0014	1
Tetrachloroethene	ND		mg/kg	0.00053	0.00021	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0011	0.00029	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00053	0.00017	1
1,1,2-Trichloroethane	ND		mg/kg	0.0011	0.00028	1
Dibromochloromethane	ND		mg/kg	0.0011	0.00015	1
1,2-Dibromoethane	ND		mg/kg	0.00053	0.00031	1
2-Hexanone	ND		mg/kg	0.011	0.0012	1
Chlorobenzene	ND		mg/kg	0.00053	0.00014	1
Ethylbenzene	ND		mg/kg	0.0011	0.00015	1
p/m-Xylene	ND		mg/kg	0.0021	0.00060	1
o-Xylene	ND		mg/kg	0.0011	0.00031	1
Xylenes, Total	ND		mg/kg	0.0011	0.00031	1
Styrene	ND		mg/kg	0.0011	0.00021	1
Bromoform	ND		mg/kg	0.0043	0.00026	1
Isopropylbenzene	ND		mg/kg	0.0011	0.00012	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00053	0.00018	1
1,3-Dichlorobenzene	ND		mg/kg	0.0021	0.00016	1
1,4-Dichlorobenzene	ND		mg/kg	0.0021	0.00018	1
1,2-Dichlorobenzene	ND		mg/kg	0.0021	0.00015	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0032	0.0011	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0021	0.00029	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0021	0.00034	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	**132**	Q	70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	**131**	Q	70-130

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-37 Date Collected: 10/17/25 08:22

Client ID: FROG-SS-117 (11-13) Date Received: 10/17/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260D

Analytical Date: 10/31/25 10:07

Analyst: MNF

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.0097	0.00089	1
Chloromethane	ND		mg/kg	0.0039	0.00090	1
Vinyl chloride	ND		mg/kg	0.00097	0.00032	1
Bromomethane	ND		mg/kg	0.0019	0.00056	1
Chloroethane	ND		mg/kg	0.0019	0.00044	1
Trichlorofluoromethane	ND		mg/kg	0.0039	0.00067	1
1,1-Dichloroethene	ND		mg/kg	0.00097	0.00023	1
Carbon disulfide	ND		mg/kg	0.0097	0.0044	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0039	0.00067	1
Methylene chloride	ND		mg/kg	0.0048	0.0022	1
Acetone	ND		mg/kg	0.024	0.0097	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0014	0.00013	1
Methyl Acetate	ND		mg/kg	0.0039	0.00092	1
Methyl tert butyl ether	ND		mg/kg	0.0019	0.00019	1
1,1-Dichloroethane	ND		mg/kg	0.00097	0.00014	1
cis-1,2-Dichloroethene	ND		mg/kg	0.00097	0.00017	1
1,2-Dichloroethene, Total	ND		mg/kg	0.00097	0.00013	1
Cyclohexane	ND		mg/kg	0.0097	0.00053	1
Bromochloromethane	ND		mg/kg	0.0019	0.00020	1
Chloroform	0.00026	J	mg/kg	0.0014	0.00014	1
Carbon tetrachloride	ND		mg/kg	0.00097	0.00022	1
1,1,1-Trichloroethane	ND		mg/kg	0.00048	0.00016	1
2-Butanone	ND		mg/kg	0.0097	0.0022	1
Benzene	ND		mg/kg	0.00048	0.00016	1
1,2-Dichloroethane	ND		mg/kg	0.00097	0.00025	1
Methyl cyclohexane	ND		mg/kg	0.0039	0.00058	1
Trichloroethene	ND		mg/kg	0.00048	0.00013	1
1,2-Dichloropropane	ND		mg/kg	0.00097	0.00012	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-37 Date Collected: 10/17/25 08:22

Client ID: FROG-SS-117 (11-13) Date Received: 10/17/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00048	0.00010	1
1,4-Dioxane	ND		mg/kg	0.078	0.034	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00048	0.00015	1
Toluene	ND		mg/kg	0.00097	0.00053	1
4-Methyl-2-pentanone	ND		mg/kg	0.0097	0.0012	1
Tetrachloroethene	ND		mg/kg	0.00048	0.00019	1
trans-1,3-Dichloropropene	ND		mg/kg	0.00097	0.00026	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00048	0.00015	1
1,1,2-Trichloroethane	ND		mg/kg	0.00097	0.00026	1
Dibromochloromethane	ND		mg/kg	0.00097	0.00014	1
1,2-Dibromoethane	ND		mg/kg	0.00048	0.00028	1
2-Hexanone	ND		mg/kg	0.0097	0.0011	1
Chlorobenzene	ND		mg/kg	0.00048	0.00012	1
Ethylbenzene	ND		mg/kg	0.00097	0.00014	1
p/m-Xylene	ND		mg/kg	0.0019	0.00054	1
o-Xylene	ND		mg/kg	0.00097	0.00028	1
Xylenes, Total	ND		mg/kg	0.00097	0.00028	1
Styrene	ND		mg/kg	0.00097	0.00019	1
Bromoform	ND		mg/kg	0.0039	0.00024	1
Isopropylbenzene	ND		mg/kg	0.00097	0.00010	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00048	0.00016	1
1,3-Dichlorobenzene	ND		mg/kg	0.0019	0.00014	1
1,4-Dichlorobenzene	ND		mg/kg	0.0019	0.00016	1
1,2-Dichlorobenzene	ND		mg/kg	0.0019	0.00014	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0029	0.00097	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0019	0.00026	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0019	0.00031	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	83		70-130
Dibromofluoromethane	110		70-130

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-38 Date Collected: 10/17/25 00:00

Client ID: FROG-SS-DUP-103 Date Received: 10/17/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260D

Analytical Date: 10/30/25 18:14

Analyst: MNF

Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.010	0.00093	1
Chloromethane	ND		mg/kg	0.0041	0.00095	1
Vinyl chloride	ND		mg/kg	0.0010	0.00034	1
Bromomethane	ND		mg/kg	0.0020	0.00059	1
Chloroethane	ND		mg/kg	0.0020	0.00046	1
Trichlorofluoromethane	ND		mg/kg	0.0041	0.00070	1
1,1-Dichloroethene	ND		mg/kg	0.0010	0.00024	1
Carbon disulfide	ND		mg/kg	0.010	0.0046	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0041	0.00070	1
Methylene chloride	ND		mg/kg	0.0051	0.0023	1
Acetone	ND		mg/kg	0.025	0.010	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0015	0.00014	1
Methyl Acetate	ND		mg/kg	0.0041	0.00096	1
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00020	1
1,1-Dichloroethane	ND		mg/kg	0.0010	0.00015	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0010	0.00018	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0010	0.00014	1
Cyclohexane	ND		mg/kg	0.010	0.00055	1
Bromochloromethane	ND		mg/kg	0.0020	0.00021	1
Chloroform	0.00023	J	mg/kg	0.0015	0.00014	1
Carbon tetrachloride	ND		mg/kg	0.0010	0.00023	1
1,1,1-Trichloroethane	ND		mg/kg	0.00051	0.00017	1
2-Butanone	ND		mg/kg	0.010	0.0022	1
Benzene	ND		mg/kg	0.00051	0.00017	1
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00026	1
Methyl cyclohexane	ND		mg/kg	0.0041	0.00061	1
Trichloroethene	ND		mg/kg	0.00051	0.00014	1
1,2-Dichloropropane	ND		mg/kg	0.0010	0.00013	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-38 Date Collected: 10/17/25 00:00

Client ID: FROG-SS-DUP-103 Date Received: 10/17/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00051	0.00011	1
1,4-Dioxane	ND		mg/kg	0.081	0.036	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00051	0.00016	1
Toluene	ND		mg/kg	0.0010	0.00055	1
4-Methyl-2-pentanone	ND		mg/kg	0.010	0.0013	1
Tetrachloroethene	ND		mg/kg	0.00051	0.00020	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00028	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00051	0.00016	1
1,1,2-Trichloroethane	ND		mg/kg	0.0010	0.00027	1
Dibromochloromethane	ND		mg/kg	0.0010	0.00014	1
1,2-Dibromoethane	ND		mg/kg	0.00051	0.00030	1
2-Hexanone	ND		mg/kg	0.010	0.0012	1
Chlorobenzene	ND		mg/kg	0.00051	0.00013	1
Ethylbenzene	ND		mg/kg	0.0010	0.00014	1
p/m-Xylene	ND		mg/kg	0.0020	0.00057	1
o-Xylene	ND		mg/kg	0.0010	0.00030	1
Xylenes, Total	ND		mg/kg	0.0010	0.00030	1
Styrene	ND		mg/kg	0.0010	0.00020	1
Bromoform	ND		mg/kg	0.0041	0.00025	1
Isopropylbenzene	ND		mg/kg	0.0010	0.00011	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00051	0.00017	1
1,3-Dichlorobenzene	ND		mg/kg	0.0020	0.00015	1
1,4-Dichlorobenzene	ND		mg/kg	0.0020	0.00017	1
1,2-Dichlorobenzene	ND		mg/kg	0.0020	0.00015	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0030	0.0010	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0020	0.00028	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0020	0.00033	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	**133**	Q	70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	**133**	Q	70-130

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-39
Client ID: FROG-SS-FB-103
Sample Location: CARLISLE, PA
Date Collected: 10/17/25 12:10
Date Received: 10/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 10/21/25 17:02
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-39 Date Collected: 10/17/25 12:10

Client ID: FROG-SS-FB-103 Date Received: 10/17/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	113		70-130

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-39
Client ID: FROG-SS-FB-103
Sample Location: CARLISLE, PA
Date Collected: 10/17/25 12:10
Date Received: 10/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 10/21/25 17:02
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
4-Bromofluorobenzene	88		70-130

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-44 Date Collected: 10/20/25 14:00

Client ID: FROG-SS-119 (0-0.5) Date Received: 10/20/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260D

Analytical Date: 10/31/25 13:12

Analyst: MNF

Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.0080	0.00074	1
Chloromethane	ND		mg/kg	0.0032	0.00075	1
Vinyl chloride	ND		mg/kg	0.00080	0.00027	1
Bromomethane	ND		mg/kg	0.0016	0.00047	1
Chloroethane	ND		mg/kg	0.0016	0.00036	1
Trichlorofluoromethane	ND		mg/kg	0.0032	0.00056	1
1,1-Dichloroethene	ND		mg/kg	0.00080	0.00019	1
Carbon disulfide	ND		mg/kg	0.0080	0.0037	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0032	0.00056	1
Methylene chloride	ND		mg/kg	0.0040	0.0018	1
Acetone	ND		mg/kg	0.020	0.0080	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0012	0.00011	1
Methyl Acetate	ND		mg/kg	0.0032	0.00076	1
Methyl tert butyl ether	ND		mg/kg	0.0016	0.00016	1
1,1-Dichloroethane	ND		mg/kg	0.00080	0.00012	1
cis-1,2-Dichloroethene	ND		mg/kg	0.00080	0.00014	1
1,2-Dichloroethene, Total	ND		mg/kg	0.00080	0.00011	1
Cyclohexane	ND		mg/kg	0.0080	0.00044	1
Bromochloromethane	ND		mg/kg	0.0016	0.00016	1
Chloroform	0.00023	J	mg/kg	0.0012	0.00011	1
Carbon tetrachloride	ND		mg/kg	0.00080	0.00018	1
1,1,1-Trichloroethane	ND		mg/kg	0.00040	0.00013	1
2-Butanone	ND		mg/kg	0.0080	0.0018	1
Benzene	ND		mg/kg	0.00040	0.00013	1
1,2-Dichloroethane	ND		mg/kg	0.00080	0.00021	1
Methyl cyclohexane	ND		mg/kg	0.0032	0.00048	1
Trichloroethene	ND		mg/kg	0.00040	0.00011	1
1,2-Dichloropropane	ND		mg/kg	0.00080	0.00010	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-44 Date Collected: 10/20/25 14:00

Client ID: FROG-SS-119 (0-0.5) Date Received: 10/20/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00040	0.00008	1
1,4-Dioxane	ND		mg/kg	0.064	0.028	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00040	0.00013	1
Toluene	ND		mg/kg	0.00080	0.00044	1
4-Methyl-2-pentanone	ND		mg/kg	0.0080	0.0010	1
Tetrachloroethene	ND		mg/kg	0.00040	0.00016	1
trans-1,3-Dichloropropene	ND		mg/kg	0.00080	0.00022	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00040	0.00013	1
1,1,2-Trichloroethane	ND		mg/kg	0.00080	0.00021	1
Dibromochloromethane	ND		mg/kg	0.00080	0.00011	1
1,2-Dibromoethane	ND		mg/kg	0.00040	0.00024	1
2-Hexanone	ND		mg/kg	0.0080	0.00095	1
Chlorobenzene	ND		mg/kg	0.00040	0.00010	1
Ethylbenzene	ND		mg/kg	0.00080	0.00011	1
p/m-Xylene	ND		mg/kg	0.0016	0.00045	1
o-Xylene	ND		mg/kg	0.00080	0.00023	1
Xylenes, Total	ND		mg/kg	0.00080	0.00023	1
Styrene	ND		mg/kg	0.00080	0.00016	1
Bromoform	ND		mg/kg	0.0032	0.00020	1
Isopropylbenzene	ND		mg/kg	0.00080	0.00008	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00040	0.00013	1
1,3-Dichlorobenzene	ND		mg/kg	0.0016	0.00012	1
1,4-Dichlorobenzene	ND		mg/kg	0.0016	0.00014	1
1,2-Dichlorobenzene	ND		mg/kg	0.0016	0.00012	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0024	0.00080	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0016	0.00022	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0016	0.00026	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	111		70-130

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-45 Date Collected: 10/20/25 10:45

Client ID: FROG-SS-122 (1.5-3.5) Date Received: 10/20/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260D

Analytical Date: 10/31/25 13:38

Analyst: MNF

Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.010	0.00097	1
Chloromethane	ND		mg/kg	0.0042	0.00098	1
Vinyl chloride	ND		mg/kg	0.0010	0.00035	1
Bromomethane	ND		mg/kg	0.0021	0.00061	1
Chloroethane	ND		mg/kg	0.0021	0.00048	1
Trichlorofluoromethane	ND		mg/kg	0.0042	0.00073	1
1,1-Dichloroethene	ND		mg/kg	0.0010	0.00025	1
Carbon disulfide	ND		mg/kg	0.010	0.0048	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0042	0.00073	1
Methylene chloride	ND		mg/kg	0.0053	0.0024	1
Acetone	0.024	J	mg/kg	0.026	0.010	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0016	0.00014	1
Methyl Acetate	ND		mg/kg	0.0042	0.0010	1
Methyl tert butyl ether	ND		mg/kg	0.0021	0.00021	1
1,1-Dichloroethane	ND		mg/kg	0.0010	0.00015	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0010	0.00018	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0010	0.00014	1
Cyclohexane	ND		mg/kg	0.010	0.00057	1
Bromochloromethane	ND		mg/kg	0.0021	0.00022	1
Chloroform	0.00030	J	mg/kg	0.0016	0.00015	1
Carbon tetrachloride	ND		mg/kg	0.0010	0.00024	1
1,1,1-Trichloroethane	ND		mg/kg	0.00053	0.00018	1
2-Butanone	0.0076	J	mg/kg	0.010	0.0023	1
Benzene	ND		mg/kg	0.00053	0.00018	1
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00027	1
Methyl cyclohexane	ND		mg/kg	0.0042	0.00064	1
Trichloroethene	ND		mg/kg	0.00053	0.00014	1
1,2-Dichloropropane	ND		mg/kg	0.0010	0.00013	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-45 Date Collected: 10/20/25 10:45

Client ID: FROG-SS-122 (1.5-3.5) Date Received: 10/20/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00053	0.00012	1
1,4-Dioxane	ND		mg/kg	0.084	0.037	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00053	0.00017	1
Toluene	ND		mg/kg	0.0010	0.00057	1
4-Methyl-2-pentanone	ND		mg/kg	0.010	0.0014	1
Tetrachloroethene	0.0014		mg/kg	0.00053	0.00021	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00029	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00053	0.00017	1
1,1,2-Trichloroethane	ND		mg/kg	0.0010	0.00028	1
Dibromochloromethane	ND		mg/kg	0.0010	0.00015	1
1,2-Dibromoethane	ND		mg/kg	0.00053	0.00031	1
2-Hexanone	ND		mg/kg	0.010	0.0012	1
Chlorobenzene	ND		mg/kg	0.00053	0.00013	1
Ethylbenzene	ND		mg/kg	0.0010	0.00015	1
p/m-Xylene	ND		mg/kg	0.0021	0.00059	1
o-Xylene	ND		mg/kg	0.0010	0.00031	1
Xylenes, Total	ND		mg/kg	0.0010	0.00031	1
Styrene	ND		mg/kg	0.0010	0.00021	1
Bromoform	ND		mg/kg	0.0042	0.00026	1
Isopropylbenzene	ND		mg/kg	0.0010	0.00012	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00053	0.00018	1
1,3-Dichlorobenzene	ND		mg/kg	0.0021	0.00016	1
1,4-Dichlorobenzene	ND		mg/kg	0.0021	0.00018	1
1,2-Dichlorobenzene	ND		mg/kg	0.0021	0.00015	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0032	0.0010	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0021	0.00029	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0021	0.00034	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	110		70-130

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-46 Date Collected: 10/20/25 11:00

Client ID: FROG-SS-122 (30-32) Date Received: 10/20/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260D

Analytical Date: 10/31/25 14:05

Analyst: MNF

Percent Solids: 67%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.012	0.0011	1
Chloromethane	ND		mg/kg	0.0049	0.0011	1
Vinyl chloride	ND		mg/kg	0.0012	0.00041	1
Bromomethane	ND		mg/kg	0.0024	0.00071	1
Chloroethane	ND		mg/kg	0.0024	0.00056	1
Trichlorofluoromethane	ND		mg/kg	0.0049	0.00085	1
1,1-Dichloroethene	ND		mg/kg	0.0012	0.00029	1
Carbon disulfide	ND		mg/kg	0.012	0.0056	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0049	0.00085	1
Methylene chloride	ND		mg/kg	0.0061	0.0028	1
Acetone	ND		mg/kg	0.031	0.012	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0018	0.00017	1
Methyl Acetate	ND		mg/kg	0.0049	0.0012	1
Methyl tert butyl ether	ND		mg/kg	0.0024	0.00025	1
1,1-Dichloroethane	ND		mg/kg	0.0012	0.00018	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0012	0.00021	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0012	0.00017	1
Cyclohexane	ND		mg/kg	0.012	0.00067	1
Bromochloromethane	ND		mg/kg	0.0024	0.00025	1
Chloroform	0.00034	J	mg/kg	0.0018	0.00017	1
Carbon tetrachloride	ND		mg/kg	0.0012	0.00028	1
1,1,1-Trichloroethane	ND		mg/kg	0.00061	0.00020	1
2-Butanone	ND		mg/kg	0.012	0.0027	1
Benzene	ND		mg/kg	0.00061	0.00020	1
1,2-Dichloroethane	ND		mg/kg	0.0012	0.00032	1
Methyl cyclohexane	ND		mg/kg	0.0049	0.00074	1
Trichloroethene	ND		mg/kg	0.00061	0.00017	1
1,2-Dichloropropane	ND		mg/kg	0.0012	0.00015	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-46 Date Collected: 10/20/25 11:00

Client ID: FROG-SS-122 (30-32) Date Received: 10/20/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00061	0.00013	1
1,4-Dioxane	ND		mg/kg	0.098	0.043	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00061	0.00019	1
Toluene	ND		mg/kg	0.0012	0.00067	1
4-Methyl-2-pentanone	ND		mg/kg	0.012	0.0016	1
Tetrachloroethene	ND		mg/kg	0.00061	0.00024	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0012	0.00034	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00061	0.00019	1
1,1,2-Trichloroethane	ND		mg/kg	0.0012	0.00033	1
Dibromochloromethane	ND		mg/kg	0.0012	0.00017	1
1,2-Dibromoethane	ND		mg/kg	0.00061	0.00036	1
2-Hexanone	ND		mg/kg	0.012	0.0014	1
Chlorobenzene	ND		mg/kg	0.00061	0.00016	1
Ethylbenzene	ND		mg/kg	0.0012	0.00017	1
p/m-Xylene	ND		mg/kg	0.0024	0.00069	1
o-Xylene	ND		mg/kg	0.0012	0.00036	1
Xylenes, Total	ND		mg/kg	0.0012	0.00036	1
Styrene	ND		mg/kg	0.0012	0.00024	1
Bromoform	ND		mg/kg	0.0049	0.00030	1
Isopropylbenzene	ND		mg/kg	0.0012	0.00013	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00061	0.00020	1
1,3-Dichlorobenzene	ND		mg/kg	0.0024	0.00018	1
1,4-Dichlorobenzene	ND		mg/kg	0.0024	0.00021	1
1,2-Dichlorobenzene	ND		mg/kg	0.0024	0.00018	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0037	0.0012	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0024	0.00033	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0024	0.00040	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	111		70-130

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-47
Client ID: FROG-SS-123 (1-3)
Sample Location: CARLISLE, PA

Date Collected: 10/20/25 12:35
Date Received: 10/20/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 10/31/25 14:31
Analyst: MNF
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.0097	0.00088	1
Chloromethane	ND		mg/kg	0.0039	0.00090	1
Vinyl chloride	ND		mg/kg	0.00097	0.00032	1
Bromomethane	ND		mg/kg	0.0019	0.00056	1
Chloroethane	ND		mg/kg	0.0019	0.00044	1
Trichlorofluoromethane	ND		mg/kg	0.0039	0.00067	1
1,1-Dichloroethene	ND		mg/kg	0.00097	0.00023	1
Carbon disulfide	ND		mg/kg	0.0097	0.0044	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0039	0.00067	1
Methylene chloride	ND		mg/kg	0.0048	0.0022	1
Acetone	ND		mg/kg	0.024	0.0097	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0014	0.00013	1
Methyl Acetate	ND		mg/kg	0.0039	0.00092	1
Methyl tert butyl ether	ND		mg/kg	0.0019	0.00019	1
1,1-Dichloroethane	ND		mg/kg	0.00097	0.00014	1
cis-1,2-Dichloroethene	ND		mg/kg	0.00097	0.00017	1
1,2-Dichloroethene, Total	ND		mg/kg	0.00097	0.00013	1
Cyclohexane	ND		mg/kg	0.0097	0.00052	1
Bromochloromethane	ND		mg/kg	0.0019	0.00020	1
Chloroform	0.00027	J	mg/kg	0.0014	0.00014	1
Carbon tetrachloride	ND		mg/kg	0.00097	0.00022	1
1,1,1-Trichloroethane	ND		mg/kg	0.00048	0.00016	1
2-Butanone	ND		mg/kg	0.0097	0.0021	1
Benzene	ND		mg/kg	0.00048	0.00016	1
1,2-Dichloroethane	ND		mg/kg	0.00097	0.00025	1
Methyl cyclohexane	ND		mg/kg	0.0039	0.00058	1
Trichloroethene	ND		mg/kg	0.00048	0.00013	1
1,2-Dichloropropane	ND		mg/kg	0.00097	0.00012	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-47 Date Collected: 10/20/25 12:35

Client ID: FROG-SS-123 (1-3) Date Received: 10/20/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00048	0.00010	1
1,4-Dioxane	ND		mg/kg	0.077	0.034	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00048	0.00015	1
Toluene	ND		mg/kg	0.00097	0.00052	1
4-Methyl-2-pentanone	ND		mg/kg	0.0097	0.0012	1
Tetrachloroethene	ND		mg/kg	0.00048	0.00019	1
trans-1,3-Dichloropropene	ND		mg/kg	0.00097	0.00026	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00048	0.00015	1
1,1,2-Trichloroethane	ND		mg/kg	0.00097	0.00026	1
Dibromochloromethane	ND		mg/kg	0.00097	0.00014	1
1,2-Dibromoethane	ND		mg/kg	0.00048	0.00028	1
2-Hexanone	ND		mg/kg	0.0097	0.0011	1
Chlorobenzene	ND		mg/kg	0.00048	0.00012	1
Ethylbenzene	ND		mg/kg	0.00097	0.00014	1
p/m-Xylene	ND		mg/kg	0.0019	0.00054	1
o-Xylene	ND		mg/kg	0.00097	0.00028	1
Xylenes, Total	ND		mg/kg	0.00097	0.00028	1
Styrene	ND		mg/kg	0.00097	0.00019	1
Bromoform	ND		mg/kg	0.0039	0.00024	1
Isopropylbenzene	ND		mg/kg	0.00097	0.00010	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00048	0.00016	1
1,3-Dichlorobenzene	ND		mg/kg	0.0019	0.00014	1
1,4-Dichlorobenzene	ND		mg/kg	0.0019	0.00016	1
1,2-Dichlorobenzene	ND		mg/kg	0.0019	0.00014	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0029	0.00096	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0019	0.00026	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0019	0.00031	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	86		70-130
Dibromofluoromethane	111		70-130

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-48
Client ID: FROG-SS-123 (17-19)
Sample Location: CARLISLE, PA
Date Collected: 10/20/25 12:42
Date Received: 10/20/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 10/31/25 14:57
Analyst: MNF
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.011	0.00099	1
Chloromethane	ND		mg/kg	0.0043	0.0010	1
Vinyl chloride	ND		mg/kg	0.0011	0.00036	1
Bromomethane	ND		mg/kg	0.0022	0.00063	1
Chloroethane	ND		mg/kg	0.0022	0.00049	1
Trichlorofluoromethane	ND		mg/kg	0.0043	0.00075	1
1,1-Dichloroethene	ND		mg/kg	0.0011	0.00026	1
Carbon disulfide	ND		mg/kg	0.011	0.0049	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0043	0.00075	1
Methylene chloride	ND		mg/kg	0.0054	0.0025	1
Acetone	0.017	J	mg/kg	0.027	0.011	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0016	0.00015	1
Methyl Acetate	ND		mg/kg	0.0043	0.0010	1
Methyl tert butyl ether	ND		mg/kg	0.0022	0.00022	1
1,1-Dichloroethane	ND		mg/kg	0.0011	0.00016	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0011	0.00019	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0011	0.00015	1
Cyclohexane	ND		mg/kg	0.011	0.00059	1
Bromochloromethane	ND		mg/kg	0.0022	0.00022	1
Chloroform	0.00030	J	mg/kg	0.0016	0.00015	1
Carbon tetrachloride	ND		mg/kg	0.0011	0.00025	1
1,1,1-Trichloroethane	ND		mg/kg	0.00054	0.00018	1
2-Butanone	ND		mg/kg	0.011	0.0024	1
Benzene	ND		mg/kg	0.00054	0.00018	1
1,2-Dichloroethane	ND		mg/kg	0.0011	0.00028	1
Methyl cyclohexane	ND		mg/kg	0.0043	0.00065	1
Trichloroethene	ND		mg/kg	0.00054	0.00015	1
1,2-Dichloropropane	ND		mg/kg	0.0011	0.00014	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-48 Date Collected: 10/20/25 12:42

Client ID: FROG-SS-123 (17-19) Date Received: 10/20/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00054	0.00012	1
1,4-Dioxane	ND		mg/kg	0.087	0.038	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00054	0.00017	1
Toluene	ND		mg/kg	0.0011	0.00059	1
4-Methyl-2-pentanone	ND		mg/kg	0.011	0.0014	1
Tetrachloroethene	ND		mg/kg	0.00054	0.00021	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0011	0.00030	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00054	0.00017	1
1,1,2-Trichloroethane	ND		mg/kg	0.0011	0.00029	1
Dibromochloromethane	ND		mg/kg	0.0011	0.00015	1
1,2-Dibromoethane	ND		mg/kg	0.00054	0.00032	1
2-Hexanone	ND		mg/kg	0.011	0.0013	1
Chlorobenzene	ND		mg/kg	0.00054	0.00014	1
Ethylbenzene	ND		mg/kg	0.0011	0.00015	1
p/m-Xylene	ND		mg/kg	0.0022	0.00061	1
o-Xylene	ND		mg/kg	0.0011	0.00032	1
Xylenes, Total	ND		mg/kg	0.0011	0.00032	1
Styrene	ND		mg/kg	0.0011	0.00021	1
Bromoform	ND		mg/kg	0.0043	0.00027	1
Isopropylbenzene	ND		mg/kg	0.0011	0.00012	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00054	0.00018	1
1,3-Dichlorobenzene	ND		mg/kg	0.0022	0.00016	1
1,4-Dichlorobenzene	ND		mg/kg	0.0022	0.00018	1
1,2-Dichlorobenzene	ND		mg/kg	0.0022	0.00016	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0032	0.0011	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0022	0.00029	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0022	0.00035	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	86		70-130
Dibromofluoromethane	112		70-130

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-49
Client ID: FROG-SS-DUP-104
Sample Location: CARLISLE, PA
Date Collected: 10/20/25 00:00
Date Received: 10/20/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 11/03/25 16:32
Analyst: AJK
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.010	0.00094	1
Chloromethane	ND		mg/kg	0.0041	0.00096	1
Vinyl chloride	ND		mg/kg	0.0010	0.00034	1
Bromomethane	ND		mg/kg	0.0020	0.00060	1
Chloroethane	ND		mg/kg	0.0020	0.00046	1
Trichlorofluoromethane	ND		mg/kg	0.0041	0.00072	1
1,1-Dichloroethene	ND		mg/kg	0.0010	0.00024	1
Carbon disulfide	ND		mg/kg	0.010	0.0047	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0041	0.00071	1
Methylene chloride	ND		mg/kg	0.0051	0.0024	1
Acetone	ND		mg/kg	0.026	0.010	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0015	0.00014	1
Methyl Acetate	ND		mg/kg	0.0041	0.00098	1
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00021	1
1,1-Dichloroethane	ND		mg/kg	0.0010	0.00015	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0010	0.00018	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0010	0.00014	1
Cyclohexane	0.00073	J	mg/kg	0.010	0.00056	1
Bromochloromethane	ND		mg/kg	0.0020	0.00021	1
Chloroform	0.00026	J	mg/kg	0.0015	0.00014	1
Carbon tetrachloride	ND		mg/kg	0.0010	0.00024	1
1,1,1-Trichloroethane	ND		mg/kg	0.00051	0.00017	1
2-Butanone	ND		mg/kg	0.010	0.0023	1
Benzene	ND		mg/kg	0.00051	0.00017	1
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00026	1
Methyl cyclohexane	0.0047		mg/kg	0.0041	0.00062	1
Trichloroethene	ND		mg/kg	0.00051	0.00014	1
1,2-Dichloropropane	ND		mg/kg	0.0010	0.00013	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-49 Date Collected: 10/20/25 00:00

Client ID: FROG-SS-DUP-104 Date Received: 10/20/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00051	0.00011	1
1,4-Dioxane	ND		mg/kg	0.082	0.036	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00051	0.00016	1
Toluene	ND		mg/kg	0.0010	0.00056	1
4-Methyl-2-pentanone	ND		mg/kg	0.010	0.0013	1
Tetrachloroethene	ND		mg/kg	0.00051	0.00020	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00028	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00051	0.00016	1
1,1,2-Trichloroethane	ND		mg/kg	0.0010	0.00027	1
Dibromochloromethane	ND		mg/kg	0.0010	0.00014	1
1,2-Dibromoethane	ND		mg/kg	0.00051	0.00030	1
2-Hexanone	ND		mg/kg	0.010	0.0012	1
Chlorobenzene	ND		mg/kg	0.00051	0.00013	1
Ethylbenzene	ND		mg/kg	0.0010	0.00014	1
p/m-Xylene	ND		mg/kg	0.0020	0.00058	1
o-Xylene	ND		mg/kg	0.0010	0.00030	1
Xylenes, Total	ND		mg/kg	0.0010	0.00030	1
Styrene	ND		mg/kg	0.0010	0.00020	1
Bromoform	ND		mg/kg	0.0041	0.00025	1
Isopropylbenzene	0.0025		mg/kg	0.0010	0.00011	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00051	0.00017	1
1,3-Dichlorobenzene	ND		mg/kg	0.0020	0.00015	1
1,4-Dichlorobenzene	ND		mg/kg	0.0020	0.00018	1
1,2-Dichlorobenzene	ND		mg/kg	0.0020	0.00015	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0031	0.0010	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0020	0.00028	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0020	0.00033	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	111		70-130
4-Bromofluorobenzene	**150**	Q	70-130
Dibromofluoromethane	99		70-130

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-50
Client ID: FROG-SS-FB-104
Sample Location: CARLISLE, PA
Date Collected: 10/20/25 11:47
Date Received: 10/20/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 10/21/25 16:36
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-50 Date Collected: 10/20/25 11:47

Client ID: FROG-SS-FB-104 Date Received: 10/20/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	112		70-130

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-50
Client ID: FROG-SS-FB-104
Sample Location: CARLISLE, PA
Date Collected: 10/20/25 11:47
Date Received: 10/20/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 10/21/25 16:36
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
4-Bromofluorobenzene	89		70-130

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-54
Client ID: FROG-SS-127 (FLOOR)
Sample Location: CARLISLE, PA

Date Collected: 10/21/25 13:11
Date Received: 10/21/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 11/04/25 14:28
Analyst: JIC
Percent Solids: 99%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.0064	0.00059	1
Chloromethane	ND		mg/kg	0.0026	0.00060	1
Vinyl chloride	ND		mg/kg	0.00064	0.00021	1
Bromomethane	ND		mg/kg	0.0013	0.00037	1
Chloroethane	ND		mg/kg	0.0013	0.00029	1
Trichlorofluoromethane	ND		mg/kg	0.0026	0.00044	1
1,1-Dichloroethene	ND		mg/kg	0.00064	0.00015	1
Carbon disulfide	ND		mg/kg	0.0064	0.0029	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0026	0.00044	1
Methylene chloride	ND		mg/kg	0.0032	0.0015	1
Acetone	0.030		mg/kg	0.016	0.0064	1
trans-1,2-Dichloroethene	ND		mg/kg	0.00096	0.00008	1
Methyl Acetate	ND		mg/kg	0.0026	0.00061	1
Methyl tert butyl ether	ND		mg/kg	0.0013	0.00013	1
1,1-Dichloroethane	ND		mg/kg	0.00064	0.00009	1
cis-1,2-Dichloroethene	ND		mg/kg	0.00064	0.00011	1
1,2-Dichloroethene, Total	ND		mg/kg	0.00064	0.00008	1
Cyclohexane	ND		mg/kg	0.0064	0.00035	1
Bromochloromethane	ND		mg/kg	0.0013	0.00013	1
Chloroform	0.00014	J	mg/kg	0.00096	0.00009	1
Carbon tetrachloride	ND		mg/kg	0.00064	0.00015	1
1,1,1-Trichloroethane	ND		mg/kg	0.00032	0.00011	1
2-Butanone	0.014		mg/kg	0.0064	0.0014	1
Benzene	0.00012	J	mg/kg	0.00032	0.00011	1
1,2-Dichloroethane	ND		mg/kg	0.00064	0.00016	1
Methyl cyclohexane	ND		mg/kg	0.0026	0.00039	1
Trichloroethene	ND		mg/kg	0.00032	0.00008	1
1,2-Dichloropropane	ND		mg/kg	0.00064	0.00008	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-54 Date Collected: 10/21/25 13:11

Client ID: FROG-SS-127 (FLOOR) Date Received: 10/21/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00032	0.00007	1
1,4-Dioxane	ND		mg/kg	0.051	0.022	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00032	0.00010	1
Toluene	ND		mg/kg	0.00064	0.00035	1
4-Methyl-2-pentanone	0.0017	J	mg/kg	0.0064	0.00082	1
Tetrachloroethene	ND		mg/kg	0.00032	0.00012	1
trans-1,3-Dichloropropene	ND		mg/kg	0.00064	0.00017	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00032	0.00010	1
1,1,2-Trichloroethane	ND		mg/kg	0.00064	0.00017	1
Dibromochloromethane	ND		mg/kg	0.00064	0.00009	1
1,2-Dibromoethane	ND		mg/kg	0.00032	0.00019	1
2-Hexanone	ND		mg/kg	0.0064	0.00076	1
Chlorobenzene	ND		mg/kg	0.00032	0.00008	1
Ethylbenzene	ND		mg/kg	0.00064	0.00009	1
p/m-Xylene	ND		mg/kg	0.0013	0.00036	1
o-Xylene	ND		mg/kg	0.00064	0.00019	1
Xylenes, Total	ND		mg/kg	0.00064	0.00019	1
Styrene	ND		mg/kg	0.00064	0.00012	1
Bromoform	ND		mg/kg	0.0026	0.00016	1
Isopropylbenzene	ND		mg/kg	0.00064	0.00007	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00032	0.00011	1
1,3-Dichlorobenzene	ND		mg/kg	0.0013	0.00009	1
1,4-Dichlorobenzene	ND		mg/kg	0.0013	0.00011	1
1,2-Dichlorobenzene	ND		mg/kg	0.0013	0.00009	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0019	0.00064	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0013	0.00017	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0013	0.00021	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	117		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	94		70-130

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-57
Client ID: FROG-SS-FB-105
Sample Location: CARLISLE, PA
Date Collected: 10/21/25 12:05
Date Received: 10/21/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 10/23/25 07:55
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-57 Date Collected: 10/21/25 12:05

Client ID: FROG-SS-FB-105 Date Received: 10/21/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	115		70-130

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-57
Client ID: FROG-SS-FB-105
Sample Location: CARLISLE, PA
Date Collected: 10/21/25 12:05
Date Received: 10/21/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 10/23/25 07:55
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
4-Bromofluorobenzene	89		70-130

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-58
Client ID: FROG-SS-EB
Sample Location: CARLISLE, PA
Date Collected: 10/21/25 10:36
Date Received: 10/21/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 10/23/25 08:22
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	1.9	J	ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	0.38	J	ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-58 Date Collected: 10/21/25 10:36

Client ID: FROG-SS-EB Date Received: 10/21/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	110		70-130

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-58
Client ID: FROG-SS-EB
Sample Location: CARLISLE, PA
Date Collected: 10/21/25 10:36
Date Received: 10/21/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 10/23/25 08:22
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
4-Bromofluorobenzene	89		70-130

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 10/21/25 08:12
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 27,39,50 Batch: WG2130590-5					
Dichlorodifluoromethane	ND		ug/l	5.0	0.24
Chloromethane	ND		ug/l	2.5	0.20
Vinyl chloride	ND		ug/l	1.0	0.07
Bromomethane	ND		ug/l	1.0	0.26
Chloroethane	ND		ug/l	1.0	0.13
Trichlorofluoromethane	ND		ug/l	2.5	0.16
1,1-Dichloroethene	ND		ug/l	0.50	0.17
Carbon disulfide	ND		ug/l	5.0	0.30
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15
Methylene chloride	ND		ug/l	2.5	0.68
Acetone	ND		ug/l	5.0	1.5
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16
Methyl Acetate	ND		ug/l	2.0	0.23
Methyl tert butyl ether	ND		ug/l	1.0	0.17
1,1-Dichloroethane	ND		ug/l	0.75	0.21
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16
Cyclohexane	ND		ug/l	10	0.27
Bromochloromethane	ND		ug/l	2.5	0.15
Chloroform	ND		ug/l	0.75	0.22
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16
2-Butanone	ND		ug/l	5.0	1.9
Benzene	ND		ug/l	0.50	0.16

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 10/21/25 08:12
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 27,39,50 Batch: WG2130590-5					
1,2-Dichloroethane	ND		ug/l	0.50	0.13
Methyl cyclohexane	ND		ug/l	10	0.40
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Bromodichloromethane	ND		ug/l	0.50	0.19
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Toluene	ND		ug/l	0.75	0.20
Tetrachloroethene	ND		ug/l	0.50	0.18
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,2-Dibromoethane	ND		ug/l	2.0	0.19
2-Hexanone	ND		ug/l	5.0	0.52
Chlorobenzene	ND		ug/l	0.50	0.18
Ethylbenzene	ND		ug/l	0.50	0.17
p/m-Xylene	ND		ug/l	1.0	0.33
o-Xylene	ND		ug/l	1.0	0.39
Xylenes, Total	ND		ug/l	1.0	0.33
Styrene	ND		ug/l	1.0	0.36
Bromoform	ND		ug/l	2.0	0.25
Isopropylbenzene	ND		ug/l	0.50	0.19
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 10/21/25 08:12
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 27,39,50 Batch: WG2130590-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	122		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	114		70-130

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D-SIM(M)
Analytical Date: 10/21/25 08:12
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 27,39,50 Batch: WG2130593-5					
1,4-Dioxane	ND		ug/l	3.0	1.1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	122		70-130
4-Bromofluorobenzene	87		70-130

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 10/23/25 06:35
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 14,57-58 Batch: WG2132151-5					
Dichlorodifluoromethane	ND		ug/l	5.0	0.24
Chloromethane	ND		ug/l	2.5	0.20
Vinyl chloride	ND		ug/l	1.0	0.07
Bromomethane	ND		ug/l	1.0	0.26
Chloroethane	ND		ug/l	1.0	0.13
Trichlorofluoromethane	ND		ug/l	2.5	0.16
1,1-Dichloroethene	ND		ug/l	0.50	0.17
Carbon disulfide	ND		ug/l	5.0	0.30
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15
Methylene chloride	ND		ug/l	2.5	0.68
Acetone	ND		ug/l	5.0	1.5
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16
Methyl Acetate	ND		ug/l	2.0	0.23
Methyl tert butyl ether	ND		ug/l	1.0	0.17
1,1-Dichloroethane	ND		ug/l	0.75	0.21
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16
Cyclohexane	ND		ug/l	10	0.27
Bromochloromethane	ND		ug/l	2.5	0.15
Chloroform	ND		ug/l	0.75	0.22
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16
2-Butanone	ND		ug/l	5.0	1.9
Benzene	ND		ug/l	0.50	0.16

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 10/23/25 06:35
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 14,57-58 Batch: WG2132151-5					
1,2-Dichloroethane	ND		ug/l	0.50	0.13
Methyl cyclohexane	ND		ug/l	10	0.40
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Bromodichloromethane	ND		ug/l	0.50	0.19
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Toluene	ND		ug/l	0.75	0.20
Tetrachloroethene	ND		ug/l	0.50	0.18
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,2-Dibromoethane	ND		ug/l	2.0	0.19
2-Hexanone	ND		ug/l	5.0	0.52
Chlorobenzene	ND		ug/l	0.50	0.18
Ethylbenzene	ND		ug/l	0.50	0.17
p/m-Xylene	ND		ug/l	1.0	0.33
o-Xylene	ND		ug/l	1.0	0.39
Xylenes, Total	ND		ug/l	1.0	0.33
Styrene	ND		ug/l	1.0	0.36
Bromoform	ND		ug/l	2.0	0.25
Isopropylbenzene	ND		ug/l	0.50	0.19
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 10/23/25 06:35
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 14,57-58 Batch: WG2132151-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	109		70-130

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D-SIM(M)
Analytical Date: 10/23/25 06:35
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 14,57-58 Batch: WG2132171-5					
1,4-Dioxane	ND		ug/l	3.0	1.1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
4-Bromofluorobenzene	89		70-130

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 10/28/25 13:15
Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,03-13 Batch: WG2134387-5					
Dichlorodifluoromethane	ND		mg/kg	0.010	0.00092
Chloromethane	ND		mg/kg	0.0040	0.00093
Vinyl chloride	ND		mg/kg	0.0010	0.00034
Bromomethane	0.00069	J	mg/kg	0.0020	0.00058
Chloroethane	ND		mg/kg	0.0020	0.00045
Trichlorofluoromethane	ND		mg/kg	0.0040	0.00070
1,1-Dichloroethene	ND		mg/kg	0.0010	0.00024
Carbon disulfide	ND		mg/kg	0.010	0.0046
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0040	0.00069
Methylene chloride	ND		mg/kg	0.0050	0.0023
Acetone	ND		mg/kg	0.025	0.010
trans-1,2-Dichloroethene	ND		mg/kg	0.0015	0.00014
Methyl Acetate	ND		mg/kg	0.0040	0.00095
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00020
1,1-Dichloroethane	ND		mg/kg	0.0010	0.00014
cis-1,2-Dichloroethene	ND		mg/kg	0.0010	0.00018
1,2-Dichloroethene, Total	ND		mg/kg	0.0010	0.00014
Cyclohexane	ND		mg/kg	0.010	0.00054
Bromochloromethane	ND		mg/kg	0.0020	0.00020
Chloroform	0.0028		mg/kg	0.0015	0.00014
Carbon tetrachloride	ND		mg/kg	0.0010	0.00023
1,1,1-Trichloroethane	ND		mg/kg	0.00050	0.00017
2-Butanone	ND		mg/kg	0.010	0.0022
Benzene	ND		mg/kg	0.00050	0.00017

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 10/28/25 13:15
Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,03-13 Batch: WG2134387-5					
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00026
Methyl cyclohexane	ND		mg/kg	0.0040	0.00060
Trichloroethene	ND		mg/kg	0.00050	0.00014
1,2-Dichloropropane	ND		mg/kg	0.0010	0.00012
Bromodichloromethane	ND		mg/kg	0.00050	0.00011
1,4-Dioxane	ND		mg/kg	0.080	0.035
cis-1,3-Dichloropropene	ND		mg/kg	0.00050	0.00016
Toluene	ND		mg/kg	0.0010	0.00054
4-Methyl-2-pentanone	ND		mg/kg	0.010	0.0013
Tetrachloroethene	ND		mg/kg	0.00050	0.00020
trans-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00027
1,3-Dichloropropene, Total	ND		mg/kg	0.00050	0.00016
1,1,2-Trichloroethane	ND		mg/kg	0.0010	0.00027
Dibromochloromethane	ND		mg/kg	0.0010	0.00014
1,2-Dibromoethane	ND		mg/kg	0.00050	0.00029
2-Hexanone	ND		mg/kg	0.010	0.0012
Chlorobenzene	ND		mg/kg	0.00050	0.00013
Ethylbenzene	ND		mg/kg	0.0010	0.00014
p/m-Xylene	ND		mg/kg	0.0020	0.00056
o-Xylene	ND		mg/kg	0.0010	0.00029
Xylenes, Total	ND		mg/kg	0.0010	0.00029
Styrene	ND		mg/kg	0.0010	0.00020
Bromoform	ND		mg/kg	0.0040	0.00025
Isopropylbenzene	ND		mg/kg	0.0010	0.00011

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 10/28/25 13:15
Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,03-13 Batch: WG2134387-5					
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00050	0.00017
1,3-Dichlorobenzene	ND		mg/kg	0.0020	0.00015
1,4-Dichlorobenzene	ND		mg/kg	0.0020	0.00017
1,2-Dichlorobenzene	ND		mg/kg	0.0020	0.00014
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0030	0.0010
1,2,4-Trichlorobenzene	ND		mg/kg	0.0020	0.00027
1,2,3-Trichlorobenzene	ND		mg/kg	0.0020	0.00032

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	119		70-130

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 10/29/25 09:25
Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035/8260 Low - Westborough Lab for sample(s): 15-18 Batch: WG2134443-5					
Dichlorodifluoromethane	ND		mg/kg	0.010	0.00092
Chloromethane	ND		mg/kg	0.0040	0.00093
Vinyl chloride	ND		mg/kg	0.0010	0.00034
Bromomethane	ND		mg/kg	0.0020	0.00058
Chloroethane	ND		mg/kg	0.0020	0.00045
Trichlorofluoromethane	ND		mg/kg	0.0040	0.00070
1,1-Dichloroethene	ND		mg/kg	0.0010	0.00024
Carbon disulfide	ND		mg/kg	0.010	0.0046
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0040	0.00069
Methylene chloride	ND		mg/kg	0.0050	0.0023
Acetone	ND		mg/kg	0.025	0.010
trans-1,2-Dichloroethene	ND		mg/kg	0.0015	0.00014
Methyl Acetate	ND		mg/kg	0.0040	0.00095
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00020
1,1-Dichloroethane	ND		mg/kg	0.0010	0.00014
cis-1,2-Dichloroethene	ND		mg/kg	0.0010	0.00018
1,2-Dichloroethene, Total	ND		mg/kg	0.0010	0.00014
Cyclohexane	ND		mg/kg	0.010	0.00054
Bromochloromethane	ND		mg/kg	0.0020	0.00020
Chloroform	0.00040	J	mg/kg	0.0015	0.00014
Carbon tetrachloride	ND		mg/kg	0.0010	0.00023
1,1,1-Trichloroethane	ND		mg/kg	0.00050	0.00017
2-Butanone	ND		mg/kg	0.010	0.0022
Benzene	ND		mg/kg	0.00050	0.00017

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 10/29/25 09:25
Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035/8260 Low - Westborough Lab for sample(s): 15-18 Batch: WG2134443-5					
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00026
Methyl cyclohexane	ND		mg/kg	0.0040	0.00060
Trichloroethene	ND		mg/kg	0.00050	0.00014
1,2-Dichloropropane	ND		mg/kg	0.0010	0.00012
Bromodichloromethane	ND		mg/kg	0.00050	0.00011
1,4-Dioxane	ND		mg/kg	0.080	0.035
cis-1,3-Dichloropropene	ND		mg/kg	0.00050	0.00016
Toluene	ND		mg/kg	0.0010	0.00054
4-Methyl-2-pentanone	ND		mg/kg	0.010	0.0013
Tetrachloroethene	ND		mg/kg	0.00050	0.00020
trans-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00027
1,3-Dichloropropene, Total	ND		mg/kg	0.00050	0.00016
1,1,2-Trichloroethane	ND		mg/kg	0.0010	0.00027
Dibromochloromethane	ND		mg/kg	0.0010	0.00014
1,2-Dibromoethane	ND		mg/kg	0.00050	0.00029
2-Hexanone	ND		mg/kg	0.010	0.0012
Chlorobenzene	ND		mg/kg	0.00050	0.00013
Ethylbenzene	ND		mg/kg	0.0010	0.00014
p/m-Xylene	ND		mg/kg	0.0020	0.00056
o-Xylene	ND		mg/kg	0.0010	0.00029
Xylenes, Total	ND		mg/kg	0.0010	0.00029
Styrene	ND		mg/kg	0.0010	0.00020
Bromoform	ND		mg/kg	0.0040	0.00025
Isopropylbenzene	ND		mg/kg	0.0010	0.00011

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 10/29/25 09:25
Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035/8260 Low - Westborough Lab for sample(s): 15-18 Batch: WG2134443-5					
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00050	0.00017
1,3-Dichlorobenzene	ND		mg/kg	0.0020	0.00015
1,4-Dichlorobenzene	ND		mg/kg	0.0020	0.00017
1,2-Dichlorobenzene	ND		mg/kg	0.0020	0.00014
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0030	0.0010
1,2,4-Trichlorobenzene	ND		mg/kg	0.0020	0.00027
1,2,3-Trichlorobenzene	0.00038	J	mg/kg	0.0020	0.00032

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	109		70-130

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 10/29/25 21:43
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035/8260 Low - Westborough Lab for sample(s): 19-21 Batch: WG2134870-5					
Dichlorodifluoromethane	ND		mg/kg	0.010	0.00092
Chloromethane	ND		mg/kg	0.0040	0.00093
Vinyl chloride	ND		mg/kg	0.0010	0.00034
Bromomethane	ND		mg/kg	0.0020	0.00058
Chloroethane	ND		mg/kg	0.0020	0.00045
Trichlorofluoromethane	ND		mg/kg	0.0040	0.00070
1,1-Dichloroethene	ND		mg/kg	0.0010	0.00024
Carbon disulfide	ND		mg/kg	0.010	0.0046
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0040	0.00069
Methylene chloride	ND		mg/kg	0.0050	0.0023
Acetone	ND		mg/kg	0.025	0.010
trans-1,2-Dichloroethene	ND		mg/kg	0.0015	0.00014
Methyl Acetate	ND		mg/kg	0.0040	0.00095
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00020
1,1-Dichloroethane	ND		mg/kg	0.0010	0.00014
cis-1,2-Dichloroethene	ND		mg/kg	0.0010	0.00018
1,2-Dichloroethene, Total	ND		mg/kg	0.0010	0.00014
Cyclohexane	ND		mg/kg	0.010	0.00054
Bromochloromethane	ND		mg/kg	0.0020	0.00020
Chloroform	0.0012	J	mg/kg	0.0015	0.00014
Carbon tetrachloride	ND		mg/kg	0.0010	0.00023
1,1,1-Trichloroethane	ND		mg/kg	0.00050	0.00017
2-Butanone	ND		mg/kg	0.010	0.0022
Benzene	ND		mg/kg	0.00050	0.00017

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 10/29/25 21:43
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035/8260 Low - Westborough Lab for sample(s): 19-21 Batch: WG2134870-5					
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00026
Methyl cyclohexane	ND		mg/kg	0.0040	0.00060
Trichloroethene	ND		mg/kg	0.00050	0.00014
1,2-Dichloropropane	ND		mg/kg	0.0010	0.00012
Bromodichloromethane	ND		mg/kg	0.00050	0.00011
1,4-Dioxane	ND		mg/kg	0.080	0.035
cis-1,3-Dichloropropene	ND		mg/kg	0.00050	0.00016
Toluene	ND		mg/kg	0.0010	0.00054
4-Methyl-2-pentanone	ND		mg/kg	0.010	0.0013
Tetrachloroethene	ND		mg/kg	0.00050	0.00020
trans-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00027
1,3-Dichloropropene, Total	ND		mg/kg	0.00050	0.00016
1,1,2-Trichloroethane	ND		mg/kg	0.0010	0.00027
Dibromochloromethane	ND		mg/kg	0.0010	0.00014
1,2-Dibromoethane	ND		mg/kg	0.00050	0.00029
2-Hexanone	ND		mg/kg	0.010	0.0012
Chlorobenzene	ND		mg/kg	0.00050	0.00013
Ethylbenzene	ND		mg/kg	0.0010	0.00014
p/m-Xylene	ND		mg/kg	0.0020	0.00056
o-Xylene	ND		mg/kg	0.0010	0.00029
Xylenes, Total	ND		mg/kg	0.0010	0.00029
Styrene	ND		mg/kg	0.0010	0.00020
Bromoform	ND		mg/kg	0.0040	0.00025
Isopropylbenzene	ND		mg/kg	0.0010	0.00011

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 10/29/25 21:43
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035/8260 Low - Westborough Lab for sample(s): 19-21 Batch: WG2134870-5					
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00050	0.00017
1,3-Dichlorobenzene	ND		mg/kg	0.0020	0.00015
1,4-Dichlorobenzene	ND		mg/kg	0.0020	0.00017
1,2-Dichlorobenzene	ND		mg/kg	0.0020	0.00014
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0030	0.0010
1,2,4-Trichlorobenzene	ND		mg/kg	0.0020	0.00027
1,2,3-Trichlorobenzene	ND		mg/kg	0.0020	0.00032

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	95		70-130

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 10/29/25 10:54
Analyst: RAW

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035/8260 Low - Westborough Lab for sample(s): 02 Batch: WG2134938-5					
Dichlorodifluoromethane	ND		mg/kg	0.010	0.00092
Chloromethane	ND		mg/kg	0.0040	0.00093
Vinyl chloride	ND		mg/kg	0.0010	0.00034
Bromomethane	ND		mg/kg	0.0020	0.00058
Chloroethane	ND		mg/kg	0.0020	0.00045
Trichlorofluoromethane	ND		mg/kg	0.0040	0.00070
1,1-Dichloroethene	ND		mg/kg	0.0010	0.00024
Carbon disulfide	ND		mg/kg	0.010	0.0046
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0040	0.00069
Methylene chloride	ND		mg/kg	0.0050	0.0023
Acetone	ND		mg/kg	0.025	0.010
trans-1,2-Dichloroethene	ND		mg/kg	0.0015	0.00014
Methyl Acetate	ND		mg/kg	0.0040	0.00095
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00020
1,1-Dichloroethane	ND		mg/kg	0.0010	0.00014
cis-1,2-Dichloroethene	ND		mg/kg	0.0010	0.00018
1,2-Dichloroethene, Total	ND		mg/kg	0.0010	0.00014
Cyclohexane	ND		mg/kg	0.010	0.00054
Bromochloromethane	ND		mg/kg	0.0020	0.00020
Chloroform	ND		mg/kg	0.0015	0.00014
Carbon tetrachloride	ND		mg/kg	0.0010	0.00023
1,1,1-Trichloroethane	ND		mg/kg	0.00050	0.00017
2-Butanone	ND		mg/kg	0.010	0.0022
Benzene	ND		mg/kg	0.00050	0.00017

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 10/29/25 10:54
Analyst: RAW

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035/8260 Low - Westborough Lab for sample(s): 02 Batch: WG2134938-5					
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00026
Methyl cyclohexane	ND		mg/kg	0.0040	0.00060
Trichloroethene	ND		mg/kg	0.00050	0.00014
1,2-Dichloropropane	ND		mg/kg	0.0010	0.00012
Bromodichloromethane	ND		mg/kg	0.00050	0.00011
1,4-Dioxane	ND		mg/kg	0.080	0.035
cis-1,3-Dichloropropene	ND		mg/kg	0.00050	0.00016
Toluene	ND		mg/kg	0.0010	0.00054
4-Methyl-2-pentanone	ND		mg/kg	0.010	0.0013
Tetrachloroethene	ND		mg/kg	0.00050	0.00020
trans-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00027
1,3-Dichloropropene, Total	ND		mg/kg	0.00050	0.00016
1,1,2-Trichloroethane	ND		mg/kg	0.0010	0.00027
Dibromochloromethane	ND		mg/kg	0.0010	0.00014
1,2-Dibromoethane	ND		mg/kg	0.00050	0.00029
2-Hexanone	ND		mg/kg	0.010	0.0012
Chlorobenzene	ND		mg/kg	0.00050	0.00013
Ethylbenzene	ND		mg/kg	0.0010	0.00014
p/m-Xylene	ND		mg/kg	0.0020	0.00056
o-Xylene	ND		mg/kg	0.0010	0.00029
Xylenes, Total	ND		mg/kg	0.0010	0.00029
Styrene	ND		mg/kg	0.0010	0.00020
Bromoform	ND		mg/kg	0.0040	0.00025
Isopropylbenzene	ND		mg/kg	0.0010	0.00011

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 10/29/25 10:54
Analyst: RAW

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035/8260 Low - Westborough Lab for sample(s): 02 Batch: WG2134938-5					
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00050	0.00017
1,3-Dichlorobenzene	ND		mg/kg	0.0020	0.00015
1,4-Dichlorobenzene	ND		mg/kg	0.0020	0.00017
1,2-Dichlorobenzene	ND		mg/kg	0.0020	0.00014
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0030	0.0010
1,2,4-Trichlorobenzene	ND		mg/kg	0.0020	0.00027
1,2,3-Trichlorobenzene	ND		mg/kg	0.0020	0.00032

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	110		70-130

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 10/30/25 09:30
Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035/8260 Low - Westborough Lab for sample(s): 25 Batch: WG2135134-5					
Dichlorodifluoromethane	ND		mg/kg	0.010	0.00092
Chloromethane	ND		mg/kg	0.0040	0.00093
Vinyl chloride	ND		mg/kg	0.0010	0.00034
Bromomethane	ND		mg/kg	0.0020	0.00058
Chloroethane	ND		mg/kg	0.0020	0.00045
Trichlorofluoromethane	ND		mg/kg	0.0040	0.00070
1,1-Dichloroethene	ND		mg/kg	0.0010	0.00024
Carbon disulfide	ND		mg/kg	0.010	0.0046
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0040	0.00069
Methylene chloride	ND		mg/kg	0.0050	0.0023
Acetone	ND		mg/kg	0.025	0.010
trans-1,2-Dichloroethene	ND		mg/kg	0.0015	0.00014
Methyl Acetate	ND		mg/kg	0.0040	0.00095
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00020
1,1-Dichloroethane	ND		mg/kg	0.0010	0.00014
cis-1,2-Dichloroethene	ND		mg/kg	0.0010	0.00018
1,2-Dichloroethene, Total	ND		mg/kg	0.0010	0.00014
Cyclohexane	ND		mg/kg	0.010	0.00054
Bromochloromethane	ND		mg/kg	0.0020	0.00020
Chloroform	ND		mg/kg	0.0015	0.00014
Carbon tetrachloride	ND		mg/kg	0.0010	0.00023
1,1,1-Trichloroethane	ND		mg/kg	0.00050	0.00017
2-Butanone	ND		mg/kg	0.010	0.0022
Benzene	ND		mg/kg	0.00050	0.00017

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 10/30/25 09:30
Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035/8260 Low - Westborough Lab for sample(s): 25 Batch: WG2135134-5					
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00026
Methyl cyclohexane	ND		mg/kg	0.0040	0.00060
Trichloroethene	ND		mg/kg	0.00050	0.00014
1,2-Dichloropropane	ND		mg/kg	0.0010	0.00012
Bromodichloromethane	ND		mg/kg	0.00050	0.00011
1,4-Dioxane	ND		mg/kg	0.080	0.035
cis-1,3-Dichloropropene	ND		mg/kg	0.00050	0.00016
Toluene	ND		mg/kg	0.0010	0.00054
4-Methyl-2-pentanone	ND		mg/kg	0.010	0.0013
Tetrachloroethene	ND		mg/kg	0.00050	0.00020
trans-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00027
1,3-Dichloropropene, Total	ND		mg/kg	0.00050	0.00016
1,1,2-Trichloroethane	ND		mg/kg	0.0010	0.00027
Dibromochloromethane	ND		mg/kg	0.0010	0.00014
1,2-Dibromoethane	ND		mg/kg	0.00050	0.00029
2-Hexanone	ND		mg/kg	0.010	0.0012
Chlorobenzene	ND		mg/kg	0.00050	0.00013
Ethylbenzene	ND		mg/kg	0.0010	0.00014
p/m-Xylene	ND		mg/kg	0.0020	0.00056
o-Xylene	ND		mg/kg	0.0010	0.00029
Xylenes, Total	ND		mg/kg	0.0010	0.00029
Styrene	ND		mg/kg	0.0010	0.00020
Bromoform	ND		mg/kg	0.0040	0.00025
Isopropylbenzene	ND		mg/kg	0.0010	0.00011

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 10/30/25 09:30
Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035/8260 Low - Westborough Lab for sample(s): 25 Batch: WG2135134-5					
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00050	0.00017
1,3-Dichlorobenzene	ND		mg/kg	0.0020	0.00015
1,4-Dichlorobenzene	ND		mg/kg	0.0020	0.00017
1,2-Dichlorobenzene	ND		mg/kg	0.0020	0.00014
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0030	0.0010
1,2,4-Trichlorobenzene	ND		mg/kg	0.0020	0.00027
1,2,3-Trichlorobenzene	ND		mg/kg	0.0020	0.00032

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	106		70-130

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 10/30/25 09:08
Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035/8260 Low - Westborough Lab for sample(s): 23-24,26,28-36,38 Batch: WG2135140-5					
Dichlorodifluoromethane	ND		mg/kg	0.010	0.00092
Chloromethane	ND		mg/kg	0.0040	0.00093
Vinyl chloride	ND		mg/kg	0.0010	0.00034
Bromomethane	0.00072	J	mg/kg	0.0020	0.00058
Chloroethane	ND		mg/kg	0.0020	0.00045
Trichlorofluoromethane	ND		mg/kg	0.0040	0.00070
1,1-Dichloroethene	ND		mg/kg	0.0010	0.00024
Carbon disulfide	ND		mg/kg	0.010	0.0046
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0040	0.00069
Methylene chloride	ND		mg/kg	0.0050	0.0023
Acetone	ND		mg/kg	0.025	0.010
trans-1,2-Dichloroethene	ND		mg/kg	0.0015	0.00014
Methyl Acetate	ND		mg/kg	0.0040	0.00095
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00020
1,1-Dichloroethane	ND		mg/kg	0.0010	0.00014
cis-1,2-Dichloroethene	ND		mg/kg	0.0010	0.00018
1,2-Dichloroethene, Total	ND		mg/kg	0.0010	0.00014
Cyclohexane	ND		mg/kg	0.010	0.00054
Bromochloromethane	ND		mg/kg	0.0020	0.00020
Chloroform	0.00090	J	mg/kg	0.0015	0.00014
Carbon tetrachloride	ND		mg/kg	0.0010	0.00023
1,1,1-Trichloroethane	ND		mg/kg	0.00050	0.00017
2-Butanone	ND		mg/kg	0.010	0.0022

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 10/30/25 09:08
Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035/8260 Low - Westborough Lab for sample(s): 23-24,26,28-36,38 Batch: WG2135140-5					
Benzene	ND		mg/kg	0.00050	0.00017
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00026
Methyl cyclohexane	ND		mg/kg	0.0040	0.00060
Trichloroethene	ND		mg/kg	0.00050	0.00014
1,2-Dichloropropane	ND		mg/kg	0.0010	0.00012
Bromodichloromethane	ND		mg/kg	0.00050	0.00011
1,4-Dioxane	ND		mg/kg	0.080	0.035
cis-1,3-Dichloropropene	ND		mg/kg	0.00050	0.00016
Toluene	ND		mg/kg	0.0010	0.00054
4-Methyl-2-pentanone	ND		mg/kg	0.010	0.0013
Tetrachloroethene	ND		mg/kg	0.00050	0.00020
trans-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00027
1,3-Dichloropropene, Total	ND		mg/kg	0.00050	0.00016
1,1,2-Trichloroethane	ND		mg/kg	0.0010	0.00027
Dibromochloromethane	ND		mg/kg	0.0010	0.00014
1,2-Dibromoethane	ND		mg/kg	0.00050	0.00029
2-Hexanone	ND		mg/kg	0.010	0.0012
Chlorobenzene	ND		mg/kg	0.00050	0.00013
Ethylbenzene	ND		mg/kg	0.0010	0.00014
p/m-Xylene	ND		mg/kg	0.0020	0.00056
o-Xylene	ND		mg/kg	0.0010	0.00029
Xylenes, Total	ND		mg/kg	0.0010	0.00029
Styrene	ND		mg/kg	0.0010	0.00020

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 10/30/25 09:08
Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035/8260 Low - Westborough Lab for sample(s): 23-24,26,28-36,38 Batch: WG2135140-5					
Bromoform	ND		mg/kg	0.0040	0.00025
Isopropylbenzene	ND		mg/kg	0.0010	0.00011
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00050	0.00017
1,3-Dichlorobenzene	ND		mg/kg	0.0020	0.00015
1,4-Dichlorobenzene	ND		mg/kg	0.0020	0.00017
1,2-Dichlorobenzene	ND		mg/kg	0.0020	0.00014
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0030	0.0010
1,2,4-Trichlorobenzene	ND		mg/kg	0.0020	0.00027
1,2,3-Trichlorobenzene	ND		mg/kg	0.0020	0.00032

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	121		70-130

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 10/30/25 12:30
Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035/8260 Low - Westborough Lab for sample(s): 22 Batch: WG2135221-5					
Dichlorodifluoromethane	ND		mg/kg	0.010	0.00092
Chloromethane	ND		mg/kg	0.0040	0.00093
Vinyl chloride	ND		mg/kg	0.0010	0.00034
Bromomethane	ND		mg/kg	0.0020	0.00058
Chloroethane	ND		mg/kg	0.0020	0.00045
Trichlorofluoromethane	ND		mg/kg	0.0040	0.00070
1,1-Dichloroethene	ND		mg/kg	0.0010	0.00024
Carbon disulfide	ND		mg/kg	0.010	0.0046
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0040	0.00069
Methylene chloride	ND		mg/kg	0.0050	0.0023
Acetone	ND		mg/kg	0.025	0.010
trans-1,2-Dichloroethene	ND		mg/kg	0.0015	0.00014
Methyl Acetate	ND		mg/kg	0.0040	0.00095
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00020
1,1-Dichloroethane	ND		mg/kg	0.0010	0.00014
cis-1,2-Dichloroethene	ND		mg/kg	0.0010	0.00018
1,2-Dichloroethene, Total	ND		mg/kg	0.0010	0.00014
Cyclohexane	ND		mg/kg	0.010	0.00054
Bromochloromethane	ND		mg/kg	0.0020	0.00020
Chloroform	0.00064	J	mg/kg	0.0015	0.00014
Carbon tetrachloride	ND		mg/kg	0.0010	0.00023
1,1,1-Trichloroethane	ND		mg/kg	0.00050	0.00017
2-Butanone	ND		mg/kg	0.010	0.0022
Benzene	ND		mg/kg	0.00050	0.00017

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 10/30/25 12:30
Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035/8260 Low - Westborough Lab for sample(s): 22 Batch: WG2135221-5					
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00026
Methyl cyclohexane	ND		mg/kg	0.0040	0.00060
Trichloroethene	ND		mg/kg	0.00050	0.00014
1,2-Dichloropropane	ND		mg/kg	0.0010	0.00012
Bromodichloromethane	ND		mg/kg	0.00050	0.00011
1,4-Dioxane	ND		mg/kg	0.080	0.035
cis-1,3-Dichloropropene	ND		mg/kg	0.00050	0.00016
Toluene	ND		mg/kg	0.0010	0.00054
4-Methyl-2-pentanone	ND		mg/kg	0.010	0.0013
Tetrachloroethene	ND		mg/kg	0.00050	0.00020
trans-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00027
1,3-Dichloropropene, Total	ND		mg/kg	0.00050	0.00016
1,1,2-Trichloroethane	ND		mg/kg	0.0010	0.00027
Dibromochloromethane	ND		mg/kg	0.0010	0.00014
1,2-Dibromoethane	ND		mg/kg	0.00050	0.00029
2-Hexanone	ND		mg/kg	0.010	0.0012
Chlorobenzene	ND		mg/kg	0.00050	0.00013
Ethylbenzene	0.00016	J	mg/kg	0.0010	0.00014
p/m-Xylene	ND		mg/kg	0.0020	0.00056
o-Xylene	ND		mg/kg	0.0010	0.00029
Xylenes, Total	ND		mg/kg	0.0010	0.00029
Styrene	ND		mg/kg	0.0010	0.00020
Bromoform	ND		mg/kg	0.0040	0.00025
Isopropylbenzene	ND		mg/kg	0.0010	0.00011

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 10/30/25 12:30
Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035/8260 Low - Westborough Lab for sample(s): 22 Batch: WG2135221-5					
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00050	0.00017
1,3-Dichlorobenzene	ND		mg/kg	0.0020	0.00015
1,4-Dichlorobenzene	ND		mg/kg	0.0020	0.00017
1,2-Dichlorobenzene	ND		mg/kg	0.0020	0.00014
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0030	0.0010
1,2,4-Trichlorobenzene	ND		mg/kg	0.0020	0.00027
1,2,3-Trichlorobenzene	ND		mg/kg	0.0020	0.00032

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	97		70-130

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 10/31/25 08:22
Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035/8260 Low - Westborough Lab for sample(s): 37,44-48 Batch: WG2135835-5					
Dichlorodifluoromethane	ND		mg/kg	0.010	0.00092
Chloromethane	ND		mg/kg	0.0040	0.00093
Vinyl chloride	ND		mg/kg	0.0010	0.00034
Bromomethane	ND		mg/kg	0.0020	0.00058
Chloroethane	ND		mg/kg	0.0020	0.00045
Trichlorofluoromethane	ND		mg/kg	0.0040	0.00070
1,1-Dichloroethene	ND		mg/kg	0.0010	0.00024
Carbon disulfide	ND		mg/kg	0.010	0.0046
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0040	0.00069
Methylene chloride	ND		mg/kg	0.0050	0.0023
Acetone	ND		mg/kg	0.025	0.010
trans-1,2-Dichloroethene	ND		mg/kg	0.0015	0.00014
Methyl Acetate	ND		mg/kg	0.0040	0.00095
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00020
1,1-Dichloroethane	ND		mg/kg	0.0010	0.00014
cis-1,2-Dichloroethene	ND		mg/kg	0.0010	0.00018
1,2-Dichloroethene, Total	ND		mg/kg	0.0010	0.00014
Cyclohexane	ND		mg/kg	0.010	0.00054
Bromochloromethane	ND		mg/kg	0.0020	0.00020
Chloroform	0.00099	J	mg/kg	0.0015	0.00014
Carbon tetrachloride	ND		mg/kg	0.0010	0.00023
1,1,1-Trichloroethane	ND		mg/kg	0.00050	0.00017
2-Butanone	ND		mg/kg	0.010	0.0022

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 10/31/25 08:22
Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035/8260 Low - Westborough Lab for sample(s): 37,44-48 Batch: WG2135835-5					
Benzene	ND		mg/kg	0.00050	0.00017
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00026
Methyl cyclohexane	ND		mg/kg	0.0040	0.00060
Trichloroethene	ND		mg/kg	0.00050	0.00014
1,2-Dichloropropane	ND		mg/kg	0.0010	0.00012
Bromodichloromethane	ND		mg/kg	0.00050	0.00011
1,4-Dioxane	ND		mg/kg	0.080	0.035
cis-1,3-Dichloropropene	ND		mg/kg	0.00050	0.00016
Toluene	ND		mg/kg	0.0010	0.00054
4-Methyl-2-pentanone	ND		mg/kg	0.010	0.0013
Tetrachloroethene	ND		mg/kg	0.00050	0.00020
trans-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00027
1,3-Dichloropropene, Total	ND		mg/kg	0.00050	0.00016
1,1,2-Trichloroethane	ND		mg/kg	0.0010	0.00027
Dibromochloromethane	ND		mg/kg	0.0010	0.00014
1,2-Dibromoethane	ND		mg/kg	0.00050	0.00029
2-Hexanone	ND		mg/kg	0.010	0.0012
Chlorobenzene	ND		mg/kg	0.00050	0.00013
Ethylbenzene	ND		mg/kg	0.0010	0.00014
p/m-Xylene	ND		mg/kg	0.0020	0.00056
o-Xylene	ND		mg/kg	0.0010	0.00029
Xylenes, Total	ND		mg/kg	0.0010	0.00029
Styrene	ND		mg/kg	0.0010	0.00020

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 10/31/25 08:22
Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035/8260 Low - Westborough Lab for sample(s): 37,44-48 Batch: WG2135835-5					
Bromoform	ND		mg/kg	0.0040	0.00025
Isopropylbenzene	ND		mg/kg	0.0010	0.00011
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00050	0.00017
1,3-Dichlorobenzene	ND		mg/kg	0.0020	0.00015
1,4-Dichlorobenzene	ND		mg/kg	0.0020	0.00017
1,2-Dichlorobenzene	ND		mg/kg	0.0020	0.00014
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0030	0.0010
1,2,4-Trichlorobenzene	ND		mg/kg	0.0020	0.00027
1,2,3-Trichlorobenzene	0.00040	J	mg/kg	0.0020	0.00032

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	86		70-130
Dibromofluoromethane	108		70-130

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 11/03/25 10:02
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035/8260 Low - Westborough Lab for sample(s): 49 Batch: WG2136460-5					
Dichlorodifluoromethane	ND		mg/kg	0.010	0.00092
Chloromethane	ND		mg/kg	0.0040	0.00093
Vinyl chloride	ND		mg/kg	0.0010	0.00034
Bromomethane	ND		mg/kg	0.0020	0.00058
Chloroethane	ND		mg/kg	0.0020	0.00045
Trichlorofluoromethane	ND		mg/kg	0.0040	0.00070
1,1-Dichloroethene	ND		mg/kg	0.0010	0.00024
Carbon disulfide	ND		mg/kg	0.010	0.0046
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0040	0.00069
Methylene chloride	ND		mg/kg	0.0050	0.0023
Acetone	ND		mg/kg	0.025	0.010
trans-1,2-Dichloroethene	ND		mg/kg	0.0015	0.00014
Methyl Acetate	ND		mg/kg	0.0040	0.00095
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00020
1,1-Dichloroethane	ND		mg/kg	0.0010	0.00014
cis-1,2-Dichloroethene	ND		mg/kg	0.0010	0.00018
1,2-Dichloroethene, Total	ND		mg/kg	0.0010	0.00014
Cyclohexane	ND		mg/kg	0.010	0.00054
Bromochloromethane	ND		mg/kg	0.0020	0.00020
Chloroform	0.00085	J	mg/kg	0.0015	0.00014
Carbon tetrachloride	ND		mg/kg	0.0010	0.00023
1,1,1-Trichloroethane	ND		mg/kg	0.00050	0.00017
2-Butanone	ND		mg/kg	0.010	0.0022
Benzene	ND		mg/kg	0.00050	0.00017

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 11/03/25 10:02
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035/8260 Low - Westborough Lab for sample(s): 49 Batch: WG2136460-5					
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00026
Methyl cyclohexane	ND		mg/kg	0.0040	0.00060
Trichloroethene	ND		mg/kg	0.00050	0.00014
1,2-Dichloropropane	ND		mg/kg	0.0010	0.00012
Bromodichloromethane	ND		mg/kg	0.00050	0.00011
1,4-Dioxane	ND		mg/kg	0.080	0.035
cis-1,3-Dichloropropene	ND		mg/kg	0.00050	0.00016
Toluene	ND		mg/kg	0.0010	0.00054
4-Methyl-2-pentanone	ND		mg/kg	0.010	0.0013
Tetrachloroethene	ND		mg/kg	0.00050	0.00020
trans-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00027
1,3-Dichloropropene, Total	ND		mg/kg	0.00050	0.00016
1,1,2-Trichloroethane	ND		mg/kg	0.0010	0.00027
Dibromochloromethane	ND		mg/kg	0.0010	0.00014
1,2-Dibromoethane	ND		mg/kg	0.00050	0.00029
2-Hexanone	ND		mg/kg	0.010	0.0012
Chlorobenzene	ND		mg/kg	0.00050	0.00013
Ethylbenzene	ND		mg/kg	0.0010	0.00014
p/m-Xylene	ND		mg/kg	0.0020	0.00056
o-Xylene	ND		mg/kg	0.0010	0.00029
Xylenes, Total	ND		mg/kg	0.0010	0.00029
Styrene	ND		mg/kg	0.0010	0.00020
Bromoform	ND		mg/kg	0.0040	0.00025
Isopropylbenzene	ND		mg/kg	0.0010	0.00011

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 11/03/25 10:02
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035/8260 Low - Westborough Lab for sample(s): 49 Batch: WG2136460-5					
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00050	0.00017
1,3-Dichlorobenzene	ND		mg/kg	0.0020	0.00015
1,4-Dichlorobenzene	ND		mg/kg	0.0020	0.00017
1,2-Dichlorobenzene	ND		mg/kg	0.0020	0.00014
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0030	0.0010
1,2,4-Trichlorobenzene	ND		mg/kg	0.0020	0.00027
1,2,3-Trichlorobenzene	ND		mg/kg	0.0020	0.00032

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	113		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	91		70-130

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 11/04/25 08:58
Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035/8260 Low - Westborough Lab for sample(s): 54 Batch: WG2136925-5					
Dichlorodifluoromethane	ND		mg/kg	0.010	0.00092
Chloromethane	ND		mg/kg	0.0040	0.00093
Vinyl chloride	ND		mg/kg	0.0010	0.00034
Bromomethane	ND		mg/kg	0.0020	0.00058
Chloroethane	ND		mg/kg	0.0020	0.00045
Trichlorofluoromethane	ND		mg/kg	0.0040	0.00070
1,1-Dichloroethene	ND		mg/kg	0.0010	0.00024
Carbon disulfide	ND		mg/kg	0.010	0.0046
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0040	0.00069
Methylene chloride	ND		mg/kg	0.0050	0.0023
Acetone	ND		mg/kg	0.025	0.010
trans-1,2-Dichloroethene	ND		mg/kg	0.0015	0.00014
Methyl Acetate	ND		mg/kg	0.0040	0.00095
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00020
1,1-Dichloroethane	ND		mg/kg	0.0010	0.00014
cis-1,2-Dichloroethene	ND		mg/kg	0.0010	0.00018
1,2-Dichloroethene, Total	ND		mg/kg	0.0010	0.00014
Cyclohexane	ND		mg/kg	0.010	0.00054
Bromochloromethane	ND		mg/kg	0.0020	0.00020
Chloroform	0.00080	J	mg/kg	0.0015	0.00014
Carbon tetrachloride	ND		mg/kg	0.0010	0.00023
1,1,1-Trichloroethane	ND		mg/kg	0.00050	0.00017
2-Butanone	ND		mg/kg	0.010	0.0022
Benzene	ND		mg/kg	0.00050	0.00017

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 11/04/25 08:58
Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035/8260 Low - Westborough Lab for sample(s): 54 Batch: WG2136925-5					
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00026
Methyl cyclohexane	ND		mg/kg	0.0040	0.00060
Trichloroethene	ND		mg/kg	0.00050	0.00014
1,2-Dichloropropane	ND		mg/kg	0.0010	0.00012
Bromodichloromethane	ND		mg/kg	0.00050	0.00011
1,4-Dioxane	ND		mg/kg	0.080	0.035
cis-1,3-Dichloropropene	ND		mg/kg	0.00050	0.00016
Toluene	ND		mg/kg	0.0010	0.00054
4-Methyl-2-pentanone	ND		mg/kg	0.010	0.0013
Tetrachloroethene	ND		mg/kg	0.00050	0.00020
trans-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00027
1,3-Dichloropropene, Total	ND		mg/kg	0.00050	0.00016
1,1,2-Trichloroethane	ND		mg/kg	0.0010	0.00027
Dibromochloromethane	ND		mg/kg	0.0010	0.00014
1,2-Dibromoethane	ND		mg/kg	0.00050	0.00029
2-Hexanone	ND		mg/kg	0.010	0.0012
Chlorobenzene	ND		mg/kg	0.00050	0.00013
Ethylbenzene	ND		mg/kg	0.0010	0.00014
p/m-Xylene	ND		mg/kg	0.0020	0.00056
o-Xylene	ND		mg/kg	0.0010	0.00029
Xylenes, Total	ND		mg/kg	0.0010	0.00029
Styrene	ND		mg/kg	0.0010	0.00020
Bromoform	ND		mg/kg	0.0040	0.00025
Isopropylbenzene	ND		mg/kg	0.0010	0.00011

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 11/04/25 08:58
Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035/8260 Low - Westborough Lab for sample(s): 54 Batch: WG2136925-5					
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00050	0.00017
1,3-Dichlorobenzene	ND		mg/kg	0.0020	0.00015
1,4-Dichlorobenzene	ND		mg/kg	0.0020	0.00017
1,2-Dichlorobenzene	ND		mg/kg	0.0020	0.00014
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0030	0.0010
1,2,4-Trichlorobenzene	ND		mg/kg	0.0020	0.00027
1,2,3-Trichlorobenzene	ND		mg/kg	0.0020	0.00032

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	112		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	92		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 27,39,50 Batch: WG2130590-3 WG2130590-4								
Dichlorodifluoromethane	91		88		36-147	3		20
Chloromethane	120		120		64-130	0		20
Vinyl chloride	110		110		55-140	0		20
Bromomethane	90		96		39-139	6		20
Chloroethane	120		110		55-138	9		20
Trichlorofluoromethane	94		91		62-150	3		20
1,1-Dichloroethene	99		97		61-145	2		20
Carbon disulfide	110		110		51-130	0		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	100		100		70-130	0		20
Methylene chloride	100		97		70-130	3		20
Acetone	120		130		58-148	8		20
trans-1,2-Dichloroethene	98		96		70-130	2		20
Methyl Acetate	120		120		70-130	0		20
Methyl tert butyl ether	84		85		63-130	1		20
1,1-Dichloroethane	110		110		70-130	0		20
cis-1,2-Dichloroethene	96		93		70-130	3		20
Cyclohexane	110		110		70-130	0		20
Bromochloromethane	100		99		70-130	1		20
Chloroform	100		98		70-130	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 27,39,50 Batch: WG2130590-3 WG2130590-4								
Carbon tetrachloride	97		94		63-132	3		20
1,1,1-Trichloroethane	94		92		67-130	2		20
2-Butanone	120		120		63-138	0		20
Benzene	100		100		70-130	0		20
1,2-Dichloroethane	100		100		70-130	0		20
Methyl cyclohexane	85		86		70-130	1		20
Trichloroethene	98		94		70-130	4		20
1,2-Dichloropropane	110		100		70-130	10		20
Bromodichloromethane	91		89		67-130	2		20
cis-1,3-Dichloropropene	85		86		70-130	1		20
Toluene	100		97		70-130	3		20
Tetrachloroethene	100		98		70-130	2		20
4-Methyl-2-pentanone	90		93		59-130	3		20
trans-1,3-Dichloropropene	98		100		70-130	2		20
1,1,2-Trichloroethane	100		100		70-130	0		20
Dibromochloromethane	94		92		63-130	2		20
1,2-Dibromoethane	99		97		70-130	2		20
2-Hexanone	100		110		57-130	10		20
Chlorobenzene	96		96		75-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 27,39,50 Batch: WG2130590-3 WG2130590-4								
Ethylbenzene	95		93		70-130	2		20
p/m-Xylene	95		90		70-130	5		20
o-Xylene	95		90		70-130	5		20
Styrene	95		95		70-130	0		20
Bromoform	83		82		54-136	1		20
Isopropylbenzene	86		87		70-130	1		20
1,3-Dichlorobenzene	95		95		70-130	0		20
1,4-Dichlorobenzene	94		96		70-130	2		20
1,2-Dichlorobenzene	94		94		70-130	0		20
1,2-Dibromo-3-chloropropane	81		81		41-144	0		20
1,2,4-Trichlorobenzene	85		84		70-130	1		20
1,2,3-Trichlorobenzene	84		86		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	108		106		70-130
Toluene-d8	107		106		70-130
4-Bromofluorobenzene	87		88		70-130
Dibromofluoromethane	103		103		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 27,39,50 Batch: WG2130593-3 WG2130593-4								
1,4-Dioxane	81		75		70-130	8		25
1,1,2,2-Tetrachloroethane	120		116		70-130	3		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	124		125		70-130
4-Bromofluorobenzene	86		86		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 14,57-58 Batch: WG2132151-3 WG2132151-4								
Dichlorodifluoromethane	82		80		36-147	2		20
Chloromethane	110		110		64-130	0		20
Vinyl chloride	100		99		55-140	1		20
Bromomethane	40		42		39-139	5		20
Chloroethane	100		98		55-138	2		20
Trichlorofluoromethane	85		83		62-150	2		20
1,1-Dichloroethene	94		91		61-145	3		20
Carbon disulfide	100		100		51-130	0		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	96		93		70-130	3		20
Methylene chloride	93		93		70-130	0		20
Acetone	120		120		58-148	0		20
trans-1,2-Dichloroethene	90		91		70-130	1		20
Methyl Acetate	120		120		70-130	0		20
Methyl tert butyl ether	86		86		63-130	0		20
1,1-Dichloroethane	100		100		70-130	0		20
cis-1,2-Dichloroethene	92		91		70-130	1		20
Cyclohexane	110		100		70-130	10		20
Bromochloromethane	93		92		70-130	1		20
Chloroform	93		92		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 14,57-58 Batch: WG2132151-3 WG2132151-4								
Carbon tetrachloride	87		86		63-132	1		20
1,1,1-Trichloroethane	86		85		67-130	1		20
2-Butanone	120		120		63-138	0		20
Benzene	96		95		70-130	1		20
1,2-Dichloroethane	93		95		70-130	2		20
Methyl cyclohexane	85		82		70-130	4		20
Trichloroethene	88		85		70-130	3		20
1,2-Dichloropropane	100		100		70-130	0		20
Bromodichloromethane	85		83		67-130	2		20
cis-1,3-Dichloropropene	86		86		70-130	0		20
Toluene	95		93		70-130	2		20
Tetrachloroethene	96		96		70-130	0		20
4-Methyl-2-pentanone	98		100		59-130	2		20
trans-1,3-Dichloropropene	98		98		70-130	0		20
1,1,2-Trichloroethane	98		100		70-130	2		20
Dibromochloromethane	93		93		63-130	0		20
1,2-Dibromoethane	93		93		70-130	0		20
2-Hexanone	110		110		57-130	0		20
Chlorobenzene	92		94		75-130	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 14,57-58 Batch: WG2132151-3 WG2132151-4								
Ethylbenzene	92		91		70-130	1		20
p/m-Xylene	90		90		70-130	0		20
o-Xylene	90		90		70-130	0		20
Styrene	90		90		70-130	0		20
Bromoform	82		80		54-136	2		20
Isopropylbenzene	90		87		70-130	3		20
1,3-Dichlorobenzene	94		90		70-130	4		20
1,4-Dichlorobenzene	94		91		70-130	3		20
1,2-Dichlorobenzene	93		92		70-130	1		20
1,2-Dibromo-3-chloropropane	79		80		41-144	1		20
1,2,4-Trichlorobenzene	89		87		70-130	2		20
1,2,3-Trichlorobenzene	88		87		70-130	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		101		70-130
Toluene-d8	106		107		70-130
4-Bromofluorobenzene	93		92		70-130
Dibromofluoromethane	98		98		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 14,57-58 Batch: WG2132171-3 WG2132171-4								
1,4-Dioxane	85		81		70-130	5		25
1,1,2,2-Tetrachloroethane	115		103		70-130	11		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	114		116		70-130
4-Bromofluorobenzene	89		89		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-13 Batch: WG2134387-3 WG2134387-4								
Dichlorodifluoromethane	86		92		30-146	7		30
Chloromethane	89		95		52-130	7		30
Vinyl chloride	77		83		67-130	8		30
Bromomethane	**52**	Q	**56**	Q	57-147	7		30
Chloroethane	64		69		50-151	8		30
Trichlorofluoromethane	85		90		70-139	6		30
1,1-Dichloroethene	73		77		65-135	5		30
Carbon disulfide	68		72		59-130	6		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	84		90		50-139	7		30
Methylene chloride	82		84		70-130	2		30
Acetone	95		98		54-140	3		30
trans-1,2-Dichloroethene	93		101		70-130	8		30
Methyl Acetate	103		111		51-146	7		30
Methyl tert butyl ether	76		80		66-130	5		30
1,1-Dichloroethane	92		97		70-130	5		30
cis-1,2-Dichloroethene	87		94		70-130	8		30
Cyclohexane	105		113		59-142	7		30
Bromochloromethane	93		98		70-130	5		30
Chloroform	89		95		70-130	7		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-13 Batch: WG2134387-3 WG2134387-4								
Carbon tetrachloride	112		122		70-130	9		30
1,1,1-Trichloroethane	102		113		70-130	10		30
2-Butanone	103		113		70-130	9		30
Benzene	91		96		70-130	5		30
1,2-Dichloroethane	90		94		70-130	4		30
Methyl cyclohexane	86		93		70-130	8		30
Trichloroethene	100		105		70-130	5		30
1,2-Dichloropropane	85		88		70-130	3		30
Bromodichloromethane	90		92		70-130	2		30
1,4-Dioxane	84		92		65-136	9		30
cis-1,3-Dichloropropene	84		87		70-130	4		30
Toluene	93		97		70-130	4		30
4-Methyl-2-pentanone	79		85		70-130	7		30
Tetrachloroethene	119		126		70-130	6		30
trans-1,3-Dichloropropene	92		97		70-130	5		30
1,1,2-Trichloroethane	92		96		70-130	4		30
Dibromochloromethane	100		104		70-130	4		30
1,2-Dibromoethane	94		100		70-130	6		30
2-Hexanone	74		83		70-130	11		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-13 Batch: WG2134387-3 WG2134387-4								
Chlorobenzene	96		101		70-130	5		30
Ethylbenzene	94		99		70-130	5		30
p/m-Xylene	96		101		70-130	5		30
o-Xylene	91		97		70-130	6		30
Styrene	93		97		70-130	4		30
Bromoform	96		106		70-130	10		30
Isopropylbenzene	89		98		70-130	10		30
1,1,2,2-Tetrachloroethane	85		91		70-130	7		30
1,3-Dichlorobenzene	98		103		70-130	5		30
1,4-Dichlorobenzene	96		100		70-130	4		30
1,2-Dichlorobenzene	92		100		70-130	8		30
1,2-Dibromo-3-chloropropane	86		100		68-130	15		30
1,2,4-Trichlorobenzene	90		95		70-130	5		30
1,2,3-Trichlorobenzene	90		96		70-130	6		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-13 Batch: WG2134387-3 WG2134387-4								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		99		70-130
Toluene-d8	100		99		70-130
4-Bromofluorobenzene	89		89		70-130
Dibromofluoromethane	102		102		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 15-18 Batch: WG2134443-3 WG2134443-4								
Dichlorodifluoromethane	98		86		30-146	13		30
Chloromethane	99		86		52-130	14		30
Vinyl chloride	108		96		67-130	12		30
Bromomethane	**158**	Q	140		57-147	12		30
Chloroethane	144		130		50-151	10		30
Trichlorofluoromethane	122		114		70-139	7		30
1,1-Dichloroethene	119		110		65-135	8		30
Carbon disulfide	109		101		59-130	8		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	137		127		50-139	8		30
Methylene chloride	97		93		70-130	4		30
Acetone	**146**	Q	132		54-140	10		30
trans-1,2-Dichloroethene	112		106		70-130	6		30
Methyl Acetate	108		104		51-146	4		30
Methyl tert butyl ether	114		108		66-130	5		30
1,1-Dichloroethane	103		98		70-130	5		30
cis-1,2-Dichloroethene	109		102		70-130	7		30
Cyclohexane	108		105		59-142	3		30
Bromochloromethane	112		112		70-130	0		30
Chloroform	102		100		70-130	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 15-18 Batch: WG2134443-3 WG2134443-4								
Carbon tetrachloride	118		115		70-130	3		30
1,1,1-Trichloroethane	113		110		70-130	3		30
2-Butanone	112		110		70-130	2		30
Benzene	103		102		70-130	1		30
1,2-Dichloroethane	100		101		70-130	1		30
Methyl cyclohexane	116		116		70-130	0		30
Trichloroethene	106		106		70-130	0		30
1,2-Dichloropropane	96		97		70-130	1		30
Bromodichloromethane	96		99		70-130	3		30
1,4-Dioxane	102		105		65-136	3		30
cis-1,3-Dichloropropene	103		107		70-130	4		30
Toluene	95		93		70-130	2		30
4-Methyl-2-pentanone	102		101		70-130	1		30
Tetrachloroethene	125		121		70-130	3		30
trans-1,3-Dichloropropene	103		104		70-130	1		30
1,1,2-Trichloroethane	96		98		70-130	2		30
Dibromochloromethane	105		106		70-130	1		30
1,2-Dibromoethane	105		107		70-130	2		30
2-Hexanone	103		101		70-130	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 15-18 Batch: WG2134443-3 WG2134443-4								
Chlorobenzene	103		103		70-130	0		30
Ethylbenzene	99		98		70-130	1		30
p/m-Xylene	101		100		70-130	1		30
o-Xylene	98		98		70-130	0		30
Styrene	96		96		70-130	0		30
Bromoform	108		108		70-130	0		30
Isopropylbenzene	100		97		70-130	3		30
1,1,2,2-Tetrachloroethane	92		92		70-130	0		30
1,3-Dichlorobenzene	106		105		70-130	1		30
1,4-Dichlorobenzene	101		101		70-130	0		30
1,2-Dichlorobenzene	102		102		70-130	0		30
1,2-Dibromo-3-chloropropane	106		104		68-130	2		30
1,2,4-Trichlorobenzene	112		113		70-130	1		30
1,2,3-Trichlorobenzene	104		108		70-130	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 15-18 Batch: WG2134443-3 WG2134443-4								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		99		70-130
Toluene-d8	98		96		70-130
4-Bromofluorobenzene	89		89		70-130
Dibromofluoromethane	106		106		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 19-21 Batch: WG2134870-3 WG2134870-4								
Dichlorodifluoromethane	89		81		30-146	9		30
Chloromethane	93		85		52-130	9		30
Vinyl chloride	100		91		67-130	9		30
Bromomethane	124		119		57-147	4		30
Chloroethane	106		100		50-151	6		30
Trichlorofluoromethane	90		85		70-139	6		30
1,1-Dichloroethene	99		94		65-135	5		30
Carbon disulfide	101		95		59-130	6		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	98		93		50-139	5		30
Methylene chloride	100		95		70-130	5		30
Acetone	74		71		54-140	4		30
trans-1,2-Dichloroethene	98		94		70-130	4		30
Methyl Acetate	94		89		51-146	5		30
Methyl tert butyl ether	99		96		66-130	3		30
1,1-Dichloroethane	94		91		70-130	3		30
cis-1,2-Dichloroethene	99		95		70-130	4		30
Cyclohexane	96		93		59-142	3		30
Bromochloromethane	102		98		70-130	4		30
Chloroform	96		93		70-130	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 19-21 Batch: WG2134870-3 WG2134870-4								
Carbon tetrachloride	99		95		70-130	4		30
1,1,1-Trichloroethane	101		97		70-130	4		30
2-Butanone	93		92		70-130	1		30
Benzene	96		96		70-130	0		30
1,2-Dichloroethane	93		92		70-130	1		30
Methyl cyclohexane	91		91		70-130	0		30
Trichloroethene	94		94		70-130	0		30
1,2-Dichloropropane	96		95		70-130	1		30
Bromodichloromethane	97		95		70-130	2		30
1,4-Dioxane	96		92		65-136	4		30
cis-1,3-Dichloropropene	98		97		70-130	1		30
Toluene	100		103		70-130	3		30
4-Methyl-2-pentanone	100		101		70-130	1		30
Tetrachloroethene	100		104		70-130	4		30
trans-1,3-Dichloropropene	100		106		70-130	6		30
1,1,2-Trichloroethane	101		104		70-130	3		30
Dibromochloromethane	103		107		70-130	4		30
1,2-Dibromoethane	104		110		70-130	6		30
2-Hexanone	104		101		70-130	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 19-21 Batch: WG2134870-3 WG2134870-4								
Chlorobenzene	104		105		70-130	1		30
Ethylbenzene	104		104		70-130	0		30
p/m-Xylene	106		104		70-130	2		30
o-Xylene	105		104		70-130	1		30
Styrene	106		105		70-130	1		30
Bromoform	93		101		70-130	8		30
Isopropylbenzene	106		108		70-130	2		30
1,1,2,2-Tetrachloroethane	103		108		70-130	5		30
1,3-Dichlorobenzene	105		107		70-130	2		30
1,4-Dichlorobenzene	105		107		70-130	2		30
1,2-Dichlorobenzene	106		108		70-130	2		30
1,2-Dibromo-3-chloropropane	103		106		68-130	3		30
1,2,4-Trichlorobenzene	110		112		70-130	2		30
1,2,3-Trichlorobenzene	109		110		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 19-21 Batch: WG2134870-3 WG2134870-4								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		90		70-130
Toluene-d8	103		104		70-130
4-Bromofluorobenzene	94		95		70-130
Dibromofluoromethane	102		96		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 02 Batch: WG2134938-3 WG2134938-4								
Dichlorodifluoromethane	78		78		30-146	0		30
Chloromethane	115		113		52-130	2		30
Vinyl chloride	109		106		67-130	3		30
Bromomethane	140		133		57-147	5		30
Chloroethane	124		121		50-151	2		30
Trichlorofluoromethane	111		110		70-139	1		30
1,1-Dichloroethene	102		101		65-135	1		30
Carbon disulfide	112		108		59-130	4		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	112		114		50-139	2		30
Methylene chloride	102		102		70-130	0		30
Acetone	87		110		54-140	23		30
trans-1,2-Dichloroethene	108		109		70-130	1		30
Methyl Acetate	96		109		51-146	13		30
Methyl tert butyl ether	103		108		66-130	5		30
1,1-Dichloroethane	113		113		70-130	0		30
cis-1,2-Dichloroethene	104		104		70-130	0		30
Cyclohexane	111		109		59-142	2		30
Bromochloromethane	102		105		70-130	3		30
Chloroform	114		112		70-130	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 02 Batch: WG2134938-3 WG2134938-4								
Carbon tetrachloride	98		98		70-130	0		30
1,1,1-Trichloroethane	104		102		70-130	2		30
2-Butanone	102		114		70-130	11		30
Benzene	113		110		70-130	3		30
1,2-Dichloroethane	107		110		70-130	3		30
Methyl cyclohexane	104		103		70-130	1		30
Trichloroethene	105		106		70-130	1		30
1,2-Dichloropropane	117		116		70-130	1		30
Bromodichloromethane	102		103		70-130	1		30
1,4-Dioxane	68		83		65-136	20		30
cis-1,3-Dichloropropene	107		107		70-130	0		30
Toluene	102		98		70-130	4		30
4-Methyl-2-pentanone	76		84		70-130	10		30
Tetrachloroethene	102		100		70-130	2		30
trans-1,3-Dichloropropene	100		102		70-130	2		30
1,1,2-Trichloroethane	99		105		70-130	6		30
Dibromochloromethane	97		99		70-130	2		30
1,2-Dibromoethane	100		102		70-130	2		30
2-Hexanone	71		86		70-130	19		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 02 Batch: WG2134938-3 WG2134938-4								
Chlorobenzene	105		104		70-130	1		30
Ethylbenzene	102		99		70-130	3		30
p/m-Xylene	103		100		70-130	3		30
o-Xylene	104		102		70-130	2		30
Styrene	116		113		70-130	3		30
Bromoform	86		92		70-130	7		30
Isopropylbenzene	100		96		70-130	4		30
1,1,2,2-Tetrachloroethane	89		96		70-130	8		30
1,3-Dichlorobenzene	101		101		70-130	0		30
1,4-Dichlorobenzene	101		102		70-130	1		30
1,2-Dichlorobenzene	101		104		70-130	3		30
1,2-Dibromo-3-chloropropane	70		82		68-130	16		30
1,2,4-Trichlorobenzene	99		100		70-130	1		30
1,2,3-Trichlorobenzene	98		101		70-130	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 02 Batch: WG2134938-3 WG2134938-4								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	104		109		70-130
Toluene-d8	97		96		70-130
4-Bromofluorobenzene	88		89		70-130
Dibromofluoromethane	104		108		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 25 Batch: WG2135134-3 WG2135134-4								
Dichlorodifluoromethane	66		63		30-146	5		30
Chloromethane	102		99		52-130	3		30
Vinyl chloride	95		91		67-130	4		30
Bromomethane	125		123		57-147	2		30
Chloroethane	111		105		50-151	6		30
Trichlorofluoromethane	92		92		70-139	0		30
1,1-Dichloroethene	92		89		65-135	3		30
Carbon disulfide	100		96		59-130	4		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	97		96		50-139	1		30
Methylene chloride	97		97		70-130	0		30
Acetone	93		100		54-140	7		30
trans-1,2-Dichloroethene	99		95		70-130	4		30
Methyl Acetate	91		99		51-146	8		30
Methyl tert butyl ether	106		107		66-130	1		30
1,1-Dichloroethane	106		104		70-130	2		30
cis-1,2-Dichloroethene	96		95		70-130	1		30
Cyclohexane	99		93		59-142	6		30
Bromochloromethane	95		97		70-130	2		30
Chloroform	101		100		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 25 Batch: WG2135134-3 WG2135134-4								
Carbon tetrachloride	76		72		70-130	5		30
1,1,1-Trichloroethane	84		81		70-130	4		30
2-Butanone	101		103		70-130	2		30
Benzene	100		97		70-130	3		30
1,2-Dichloroethane	100		103		70-130	3		30
Methyl cyclohexane	90		84		70-130	7		30
Trichloroethene	93		89		70-130	4		30
1,2-Dichloropropane	107		107		70-130	0		30
Bromodichloromethane	90		91		70-130	1		30
1,4-Dioxane	86		78		65-136	10		30
cis-1,3-Dichloropropene	93		94		70-130	1		30
Toluene	90		89		70-130	1		30
4-Methyl-2-pentanone	84		87		70-130	4		30
Tetrachloroethene	91		88		70-130	3		30
trans-1,3-Dichloropropene	81		81		70-130	0		30
1,1,2-Trichloroethane	98		101		70-130	3		30
Dibromochloromethane	88		90		70-130	2		30
1,2-Dibromoethane	94		95		70-130	1		30
2-Hexanone	82		83		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 25 Batch: WG2135134-3 WG2135134-4								
Chlorobenzene	96		96		70-130	0		30
Ethylbenzene	91		89		70-130	2		30
p/m-Xylene	92		90		70-130	2		30
o-Xylene	95		93		70-130	2		30
Styrene	104		104		70-130	0		30
Bromoform	81		81		70-130	0		30
Isopropylbenzene	88		86		70-130	2		30
1,1,2,2-Tetrachloroethane	90		94		70-130	4		30
1,3-Dichlorobenzene	93		94		70-130	1		30
1,4-Dichlorobenzene	94		96		70-130	2		30
1,2-Dichlorobenzene	94		98		70-130	4		30
1,2-Dibromo-3-chloropropane	**65**	Q	69		68-130	6		30
1,2,4-Trichlorobenzene	96		98		70-130	2		30
1,2,3-Trichlorobenzene	96		101		70-130	5		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 25 Batch: WG2135134-3 WG2135134-4								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		103		70-130
Toluene-d8	97		95		70-130
4-Bromofluorobenzene	89		90		70-130
Dibromofluoromethane	106		106		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 23-24,26,28-36,38 Batch: WG2135140-3 WG2135140-4								
Dichlorodifluoromethane	107		105		30-146	2		30
Chloromethane	110		110		52-130	0		30
Vinyl chloride	92		93		67-130	1		30
Bromomethane	67		66		57-147	2		30
Chloroethane	80		79		50-151	1		30
Trichlorofluoromethane	101		98		70-139	3		30
1,1-Dichloroethene	86		86		65-135	0		30
Carbon disulfide	82		80		59-130	2		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	96		96		50-139	0		30
Methylene chloride	97		95		70-130	2		30
Acetone	97		96		54-140	1		30
trans-1,2-Dichloroethene	112		110		70-130	2		30
Methyl Acetate	117		113		51-146	3		30
Methyl tert butyl ether	89		88		66-130	1		30
1,1-Dichloroethane	110		107		70-130	3		30
cis-1,2-Dichloroethene	105		106		70-130	1		30
Cyclohexane	116		118		59-142	2		30
Bromochloromethane	113		112		70-130	1		30
Chloroform	106		103		70-130	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 23-24,26,28-36,38 Batch: WG2135140-3 WG2135140-4								
Carbon tetrachloride	**132**	Q	130		70-130	2		30
1,1,1-Trichloroethane	124		120		70-130	3		30
2-Butanone	120		119		70-130	1		30
Benzene	108		108		70-130	0		30
1,2-Dichloroethane	108		106		70-130	2		30
Methyl cyclohexane	97		98		70-130	1		30
Trichloroethene	117		116		70-130	1		30
1,2-Dichloropropane	102		101		70-130	1		30
Bromodichloromethane	106		106		70-130	0		30
1,4-Dioxane	98		95		65-136	3		30
cis-1,3-Dichloropropene	101		100		70-130	1		30
Toluene	107		108		70-130	1		30
4-Methyl-2-pentanone	90		88		70-130	2		30
Tetrachloroethene	**138**	Q	**138**	Q	70-130	0		30
trans-1,3-Dichloropropene	108		110		70-130	2		30
1,1,2-Trichloroethane	107		107		70-130	0		30
Dibromochloromethane	116		119		70-130	3		30
1,2-Dibromoethane	109		111		70-130	2		30
2-Hexanone	82		86		70-130	5		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 23-24,26,28-36,38 Batch: WG2135140-3 WG2135140-4								
Chlorobenzene	112		114		70-130	2		30
Ethylbenzene	108		110		70-130	2		30
p/m-Xylene	110		112		70-130	2		30
o-Xylene	106		108		70-130	2		30
Styrene	110		110		70-130	0		30
Bromoform	113		116		70-130	3		30
Isopropylbenzene	103		104		70-130	1		30
1,1,2,2-Tetrachloroethane	101		99		70-130	2		30
1,3-Dichlorobenzene	118		116		70-130	2		30
1,4-Dichlorobenzene	111		112		70-130	1		30
1,2-Dichlorobenzene	112		113		70-130	1		30
1,2-Dibromo-3-chloropropane	102		102		68-130	0		30
1,2,4-Trichlorobenzene	113		113		70-130	0		30
1,2,3-Trichlorobenzene	113		112		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 23-24,26,28-36,38 Batch: WG2135140-3 WG2135140-4								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	105		101		70-130
Toluene-d8	98		99		70-130
4-Bromofluorobenzene	94		84		70-130
Dibromofluoromethane	105		103		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 22 Batch: WG2135221-3 WG2135221-4								
Dichlorodifluoromethane	91		88		30-146	3		30
Chloromethane	92		90		52-130	2		30
Vinyl chloride	95		95		67-130	0		30
Bromomethane	130		124		57-147	5		30
Chloroethane	102		102		50-151	0		30
Trichlorofluoromethane	**165**	Q	**145**	Q	70-139	13		30
1,1-Dichloroethene	101		100		65-135	1		30
Carbon disulfide	101		99		59-130	2		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	106		103		50-139	3		30
Methylene chloride	98		96		70-130	2		30
Acetone	74		70		54-140	6		30
trans-1,2-Dichloroethene	97		97		70-130	0		30
Methyl Acetate	90		88		51-146	2		30
Methyl tert butyl ether	94		95		66-130	1		30
1,1-Dichloroethane	95		94		70-130	1		30
cis-1,2-Dichloroethene	97		97		70-130	0		30
Cyclohexane	103		103		59-142	0		30
Bromochloromethane	99		98		70-130	1		30
Chloroform	94		94		70-130	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 22 Batch: WG2135221-3 WG2135221-4								
Carbon tetrachloride	100		97		70-130	3		30
1,1,1-Trichloroethane	101		100		70-130	1		30
2-Butanone	90		92		70-130	2		30
Benzene	98		97		70-130	1		30
1,2-Dichloroethane	91		90		70-130	1		30
Methyl cyclohexane	102		102		70-130	0		30
Trichloroethene	96		96		70-130	0		30
1,2-Dichloropropane	95		96		70-130	1		30
Bromodichloromethane	94		94		70-130	0		30
1,4-Dioxane	104		104		65-136	0		30
cis-1,3-Dichloropropene	98		98		70-130	0		30
Toluene	105		105		70-130	0		30
4-Methyl-2-pentanone	99		100		70-130	1		30
Tetrachloroethene	107		108		70-130	1		30
trans-1,3-Dichloropropene	104		105		70-130	1		30
1,1,2-Trichloroethane	102		104		70-130	2		30
Dibromochloromethane	105		104		70-130	1		30
1,2-Dibromoethane	108		108		70-130	0		30
2-Hexanone	100		99		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 22 Batch: WG2135221-3 WG2135221-4								
Chlorobenzene	106		106		70-130	0		30
Ethylbenzene	106		106		70-130	0		30
p/m-Xylene	106		107		70-130	1		30
o-Xylene	104		105		70-130	1		30
Styrene	105		106		70-130	1		30
Bromoform	100		97		70-130	3		30
Isopropylbenzene	112		109		70-130	3		30
1,1,2,2-Tetrachloroethane	106		104		70-130	2		30
1,3-Dichlorobenzene	108		106		70-130	2		30
1,4-Dichlorobenzene	110		107		70-130	3		30
1,2-Dichlorobenzene	108		107		70-130	1		30
1,2-Dibromo-3-chloropropane	101		102		68-130	1		30
1,2,4-Trichlorobenzene	111		108		70-130	3		30
1,2,3-Trichlorobenzene	109		108		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 22 Batch: WG2135221-3 WG2135221-4								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	92		91		70-130
Toluene-d8	104		104		70-130
4-Bromofluorobenzene	95		94		70-130
Dibromofluoromethane	96		95		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 37,44-48 Batch: WG2135835-3 WG2135835-4								
Dichlorodifluoromethane	75		75		30-146	0		30
Chloromethane	85		85		52-130	0		30
Vinyl chloride	94		93		67-130	1		30
Bromomethane	146		141		57-147	3		30
Chloroethane	135		135		50-151	0		30
Trichlorofluoromethane	99		100		70-139	1		30
1,1-Dichloroethene	102		100		65-135	2		30
Carbon disulfide	96		96		59-130	0		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	110		110		50-139	0		30
Methylene chloride	91		92		70-130	1		30
Acetone	105		102		54-140	3		30
trans-1,2-Dichloroethene	100		103		70-130	3		30
Methyl Acetate	100		95		51-146	5		30
Methyl tert butyl ether	106		104		66-130	2		30
1,1-Dichloroethane	95		96		70-130	1		30
cis-1,2-Dichloroethene	100		103		70-130	3		30
Cyclohexane	89		93		59-142	4		30
Bromochloromethane	107		108		70-130	1		30
Chloroform	96		101		70-130	5		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 37,44-48 Batch: WG2135835-3 WG2135835-4								
Carbon tetrachloride	100		108		70-130	8		30
1,1,1-Trichloroethane	99		104		70-130	5		30
2-Butanone	99		100		70-130	1		30
Benzene	95		100		70-130	5		30
1,2-Dichloroethane	94		100		70-130	6		30
Methyl cyclohexane	95		103		70-130	8		30
Trichloroethene	95		101		70-130	6		30
1,2-Dichloropropane	91		96		70-130	5		30
Bromodichloromethane	92		97		70-130	5		30
1,4-Dioxane	102		106		65-136	4		30
cis-1,3-Dichloropropene	97		103		70-130	6		30
Toluene	88		92		70-130	4		30
4-Methyl-2-pentanone	98		96		70-130	2		30
Tetrachloroethene	110		115		70-130	4		30
trans-1,3-Dichloropropene	101		101		70-130	0		30
1,1,2-Trichloroethane	95		95		70-130	0		30
Dibromochloromethane	102		103		70-130	1		30
1,2-Dibromoethane	103		104		70-130	1		30
2-Hexanone	96		91		70-130	5		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 37,44-48 Batch: WG2135835-3 WG2135835-4								
Chlorobenzene	96		102		70-130	6		30
Ethylbenzene	90		98		70-130	9		30
p/m-Xylene	92		100		70-130	8		30
o-Xylene	90		97		70-130	7		30
Styrene	88		96		70-130	9		30
Bromoform	103		104		70-130	1		30
Isopropylbenzene	91		96		70-130	5		30
1,1,2,2-Tetrachloroethane	91		92		70-130	1		30
1,3-Dichlorobenzene	100		104		70-130	4		30
1,4-Dichlorobenzene	96		101		70-130	5		30
1,2-Dichlorobenzene	97		102		70-130	5		30
1,2-Dibromo-3-chloropropane	101		100		68-130	1		30
1,2,4-Trichlorobenzene	107		112		70-130	5		30
1,2,3-Trichlorobenzene	101		107		70-130	6		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 37,44-48 Batch: WG2135835-3 WG2135835-4								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		96		70-130
Toluene-d8	99		96		70-130
4-Bromofluorobenzene	90		89		70-130
Dibromofluoromethane	106		105		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 49 Batch: WG2136460-3 WG2136460-4								
Dichlorodifluoromethane	132		129		30-146	2		30
Chloromethane	103		101		52-130	2		30
Vinyl chloride	106		106		67-130	0		30
Bromomethane	118		123		57-147	4		30
Chloroethane	110		111		50-151	1		30
Trichlorofluoromethane	102		96		70-139	6		30
1,1-Dichloroethene	95		96		65-135	1		30
Carbon disulfide	97		97		59-130	0		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	104		103		50-139	1		30
Methylene chloride	91		92		70-130	1		30
Acetone	54		56		54-140	4		30
trans-1,2-Dichloroethene	90		90		70-130	0		30
Methyl Acetate	87		92		51-146	6		30
Methyl tert butyl ether	93		92		66-130	1		30
1,1-Dichloroethane	88		88		70-130	0		30
cis-1,2-Dichloroethene	89		90		70-130	1		30
Cyclohexane	101		99		59-142	2		30
Bromochloromethane	88		91		70-130	3		30
Chloroform	88		89		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 49 Batch: WG2136460-3 WG2136460-4								
Carbon tetrachloride	94		94		70-130	0		30
1,1,1-Trichloroethane	95		95		70-130	0		30
2-Butanone	87		90		70-130	3		30
Benzene	92		92		70-130	0		30
1,2-Dichloroethane	84		86		70-130	2		30
Methyl cyclohexane	96		98		70-130	2		30
Trichloroethene	88		90		70-130	2		30
1,2-Dichloropropane	88		90		70-130	2		30
Bromodichloromethane	87		89		70-130	2		30
1,4-Dioxane	93		97		65-136	4		30
cis-1,3-Dichloropropene	90		92		70-130	2		30
Toluene	113		113		70-130	0		30
4-Methyl-2-pentanone	113		114		70-130	1		30
Tetrachloroethene	116		114		70-130	2		30
trans-1,3-Dichloropropene	117		116		70-130	1		30
1,1,2-Trichloroethane	113		114		70-130	1		30
Dibromochloromethane	113		113		70-130	0		30
1,2-Dibromoethane	116		117		70-130	1		30
2-Hexanone	108		112		70-130	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 49 Batch: WG2136460-3 WG2136460-4								
Chlorobenzene	112		112		70-130	0		30
Ethylbenzene	114		113		70-130	1		30
p/m-Xylene	114		113		70-130	1		30
o-Xylene	112		113		70-130	1		30
Styrene	111		112		70-130	1		30
Bromoform	114		114		70-130	0		30
Isopropylbenzene	127		125		70-130	2		30
1,1,2,2-Tetrachloroethane	125		127		70-130	2		30
1,3-Dichlorobenzene	120		119		70-130	1		30
1,4-Dichlorobenzene	121		119		70-130	2		30
1,2-Dichlorobenzene	121		121		70-130	0		30
1,2-Dibromo-3-chloropropane	116		122		68-130	5		30
1,2,4-Trichlorobenzene	126		124		70-130	2		30
1,2,3-Trichlorobenzene	122		124		70-130	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 49 Batch: WG2136460-3 WG2136460-4								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	88		88		70-130
Toluene-d8	113		112		70-130
4-Bromofluorobenzene	97		96		70-130
Dibromofluoromethane	89		91		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 54 Batch: WG2136925-3 WG2136925-4								
Dichlorodifluoromethane	104		105		30-146	1		30
Chloromethane	98		95		52-130	3		30
Vinyl chloride	100		100		67-130	0		30
Bromomethane	126		123		57-147	2		30
Chloroethane	105		106		50-151	1		30
Trichlorofluoromethane	108		101		70-139	7		30
1,1-Dichloroethene	103		103		65-135	0		30
Carbon disulfide	103		101		59-130	2		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	113		111		50-139	2		30
Methylene chloride	93		94		70-130	1		30
Acetone	58		54		54-140	7		30
trans-1,2-Dichloroethene	96		96		70-130	0		30
Methyl Acetate	94		89		51-146	5		30
Methyl tert butyl ether	96		93		66-130	3		30
1,1-Dichloroethane	94		93		70-130	1		30
cis-1,2-Dichloroethene	94		93		70-130	1		30
Cyclohexane	111		110		59-142	1		30
Bromochloromethane	93		93		70-130	0		30
Chloroform	92		92		70-130	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 54 Batch: WG2136925-3 WG2136925-4								
Carbon tetrachloride	102		99		70-130	3		30
1,1,1-Trichloroethane	100		99		70-130	1		30
2-Butanone	98		90		70-130	9		30
Benzene	95		94		70-130	1		30
1,2-Dichloroethane	88		87		70-130	1		30
Methyl cyclohexane	106		106		70-130	0		30
Trichloroethene	97		95		70-130	2		30
1,2-Dichloropropane	92		93		70-130	1		30
Bromodichloromethane	89		90		70-130	1		30
1,4-Dioxane	100		100		65-136	0		30
cis-1,3-Dichloropropene	94		94		70-130	0		30
Toluene	114		114		70-130	0		30
4-Methyl-2-pentanone	114		110		70-130	4		30
Tetrachloroethene	120		117		70-130	3		30
trans-1,3-Dichloropropene	117		115		70-130	2		30
1,1,2-Trichloroethane	113		111		70-130	2		30
Dibromochloromethane	112		110		70-130	2		30
1,2-Dibromoethane	114		112		70-130	2		30
2-Hexanone	112		107		70-130	5		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 54 Batch: WG2136925-3 WG2136925-4								
Chlorobenzene	115		115		70-130	0		30
Ethylbenzene	116		117		70-130	1		30
p/m-Xylene	117		117		70-130	0		30
o-Xylene	114		115		70-130	1		30
Styrene	113		114		70-130	1		30
Bromoform	113		107		70-130	5		30
Isopropylbenzene	**132**	Q	126		70-130	5		30
1,1,2,2-Tetrachloroethane	121		116		70-130	4		30
1,3-Dichlorobenzene	122		116		70-130	5		30
1,4-Dichlorobenzene	125		119		70-130	5		30
1,2-Dichlorobenzene	122		117		70-130	4		30
1,2-Dibromo-3-chloropropane	111		109		68-130	2		30
1,2,4-Trichlorobenzene	129		122		70-130	6		30
1,2,3-Trichlorobenzene	123		118		70-130	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 54 Batch: WG2136925-3 WG2136925-4								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	92		89		70-130
Toluene-d8	109		110		70-130
4-Bromofluorobenzene	94		95		70-130
Dibromofluoromethane	92		93		70-130

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-13 QC Batch ID: WG2134387-6 WG2134387-7 QC Sample: L2565410-04 Client ID: FROG-SS-104 (13-15)												
Dichlorodifluoromethane	ND	0.113	0.13	115		0.13	111		30-146	0		30
Chloromethane	ND	0.113	0.12	106		0.12	102		52-130	0		30
Vinyl chloride	ND	0.113	0.12	106		0.12	102		67-130	0		30
Bromomethane	ND	0.113	0.071	63		0.073	62		57-147	3		30
Chloroethane	ND	0.113	0.093	82		0.093	79		50-151	0		30
Trichlorofluoromethane	ND	0.113	0.12	106		0.12	102		70-139	0		30
1,1-Dichloroethene	ND	0.113	0.11	97		0.11	94		65-135	0		30
Carbon disulfide	ND	0.113	0.10	88		0.098	83		59-130	2		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.113	0.12	106		0.12	102		50-139	0		30
Methylene chloride	ND	0.113	0.11	97		0.11	94		70-130	0		30
Acetone	ND	0.113	0.10	88		0.11	94		54-140	10		30
trans-1,2-Dichloroethene	ND	0.113	0.13	115		0.13	111		70-130	0		30
Methyl Acetate	ND	0.113	0.13	115		0.14	119		51-146	7		30
Methyl tert butyl ether	ND	0.113	0.11	97		0.11	94		66-130	0		30
1,1-Dichloroethane	ND	0.113	0.13	115		0.13	111		70-130	0		30
cis-1,2-Dichloroethene	ND	0.113	0.12	106		0.12	102		70-130	0		30
Cyclohexane	ND	0.113	0.17	**150**	Q	0.16	136		59-142	6		30
Bromochloromethane	ND	0.113	0.12	106		0.12	102		70-130	0		30
Chloroform	0.00023JB	0.113	0.12	106		0.12	102		70-130	0		30

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-13 QC Batch ID: WG2134387-6 WG2134387-7 QC Sample: L2565410-04 Client ID: FROG-SS-104 (13-15)												
Carbon tetrachloride	ND	0.113	0.16	**141**	Q	0.16	**136**	Q	70-130	0		30
1,1,1-Trichloroethane	ND	0.113	0.15	**132**	Q	0.15	128		70-130	0		30
2-Butanone	ND	0.113	0.12	106		0.13	111		70-130	8		30
Benzene	ND	0.113	0.13	115		0.13	111		70-130	0		30
1,2-Dichloroethane	ND	0.113	0.12	106		0.12	102		70-130	0		30
Methyl cyclohexane	ND	0.113	0.14	123		0.13	111		70-130	7		30
Trichloroethene	ND	0.113	0.14	123		0.13	111		70-130	7		30
1,2-Dichloropropane	ND	0.113	0.12	106		0.12	102		70-130	0		30
Bromodichloromethane	ND	0.113	0.12	106		0.12	102		70-130	0		30
1,4-Dioxane	ND	5.67	4.6	81		5.1	87		65-136	10		30
cis-1,3-Dichloropropene	ND	0.113	0.12	106		0.12	102		70-130	0		30
Toluene	ND	0.113	0.13	115		0.12	102		70-130	8		30
4-Methyl-2-pentanone	ND	0.113	0.11	97		0.11	94		70-130	0		30
Tetrachloroethene	ND	0.113	0.16	**141**	Q	0.14	119		70-130	13		30
trans-1,3-Dichloropropene	ND	0.113	0.12	106		0.12	102		70-130	0		30
1,1,2-Trichloroethane	ND	0.113	0.12	106		0.12	102		70-130	0		30
Dibromochloromethane	ND	0.113	0.13	115		0.13	111		70-130	0		30
1,2-Dibromoethane	ND	0.113	0.12	106		0.12	102		70-130	0		30
2-Hexanone	ND	0.113	0.10	88		0.10	85		70-130	0		30

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-13 QC Batch ID: WG2134387-6 WG2134387-7 QC Sample: L2565410-04 Client ID: FROG-SS-104 (13-15)												
Chlorobenzene	ND	0.113	0.13	115		0.11	94		70-130	17		30
Ethylbenzene	ND	0.113	0.13	115		0.11	94		70-130	17		30
p/m-Xylene	ND	0.227	0.26	115		0.21	89		70-130	21		30
o-Xylene	ND	0.227	0.25	110		0.21	89		70-130	17		30
Styrene	ND	0.227	0.24	106		0.21	89		70-130	13		30
Bromoform	ND	0.113	0.13	115		0.12	102		70-130	8		30
Isopropylbenzene	ND	0.113	0.13	115		0.10	85		70-130	26		30
1,1,2,2-Tetrachloroethane	ND	0.113	0.11	97		0.10	85		70-130	10		30
1,3-Dichlorobenzene	ND	0.113	0.12	106		0.092	78		70-130	26		30
1,4-Dichlorobenzene	ND	0.113	0.11	97		0.087	74		70-130	23		30
1,2-Dichlorobenzene	ND	0.113	0.12	106		0.095	81		70-130	23		30
1,2-Dibromo-3-chloropropane	ND	0.113	0.11	97		0.11	94		68-130	0		30
1,2,4-Trichlorobenzene	ND	0.113	0.10	88		0.076	**65**	Q	70-130	27		30
1,2,3-Trichlorobenzene	ND	0.113	0.10	88		0.081	**69**	Q	70-130	21		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		104		70-130
4-Bromofluorobenzene	90		90		70-130
Dibromofluoromethane	102		103		70-130
Toluene-d8	99		100		70-130

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 25 QC Batch ID: WG2135134-6 WG2135134-7 QC Sample: L2565410-25 Client ID: FROG-SS-121 (22-24)												
Dichlorodifluoromethane	ND	0.131	0.12	92		0.12	102		30-146	0		30
Chloromethane	ND	0.131	0.19	**145**	Q	0.19	**161**	Q	52-130	0		30
Vinyl chloride	ND	0.131	0.17	130		0.17	**144**	Q	67-130	0		30
Bromomethane	ND	0.131	0.20	**153**	Q	0.19	**161**	Q	57-147	5		30
Chloroethane	ND	0.131	0.20	**153**	Q	0.20	**170**	Q	50-151	0		30
Trichlorofluoromethane	ND	0.131	0.16	122		0.16	136		70-139	0		30
1,1-Dichloroethene	ND	0.131	0.15	114		0.15	127		65-135	0		30
Carbon disulfide	ND	0.131	0.17	130		0.16	**136**	Q	59-130	6		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.131	0.17	130		0.16	136		50-139	6		30
Methylene chloride	ND	0.131	0.14	107		0.14	119		70-130	0		30
Acetone	ND	0.131	0.15	114		0.13	110		54-140	14		30
trans-1,2-Dichloroethene	ND	0.131	0.15	114		0.15	127		70-130	0		30
Methyl Acetate	ND	0.131	0.16	122		0.16	136		51-146	0		30
Methyl tert butyl ether	ND	0.131	0.14	107		0.14	119		66-130	0		30
1,1-Dichloroethane	ND	0.131	0.18	**137**	Q	0.17	**144**	Q	70-130	6		30
cis-1,2-Dichloroethene	ND	0.131	0.14	107		0.14	119		70-130	0		30
Cyclohexane	ND	0.131	0.18	137		0.17	**144**	Q	59-142	6		30
Bromochloromethane	ND	0.131	0.14	107		0.13	110		70-130	7		30
Chloroform	ND	0.131	0.16	122		0.16	**136**	Q	70-130	0		30

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 25 QC Batch ID: WG2135134-6 WG2135134-7 QC Sample: L2565410-25 Client ID: FROG-SS-121 (22-24)												
Carbon tetrachloride	ND	0.131	0.10	76		0.11	93		70-130	10		30
1,1,1-Trichloroethane	ND	0.131	0.13	99		0.14	119		70-130	7		30
2-Butanone	ND	0.131	0.14	107		0.14	119		70-130	0		30
Benzene	ND	0.131	0.16	122		0.16	**136**	Q	70-130	0		30
1,2-Dichloroethane	ND	0.131	0.15	114		0.15	127		70-130	0		30
Methyl cyclohexane	ND	0.131	0.15	114		0.15	127		70-130	0		30
Trichloroethene	ND	0.131	0.14	107		0.14	119		70-130	0		30
1,2-Dichloropropane	ND	0.131	0.17	130		0.17	**144**	Q	70-130	0		30
Bromodichloromethane	ND	0.131	0.12	92		0.13	110		70-130	8		30
1,4-Dioxane	ND	6.55	4.9	75		4.6	78		65-136	6		30
cis-1,3-Dichloropropene	ND	0.131	0.13	99		0.14	119		70-130	7		30
Toluene	ND	0.131	0.14	107		0.14	119		70-130	0		30
4-Methyl-2-pentanone	ND	0.131	0.11	84		0.11	93		70-130	0		30
Tetrachloroethene	ND	0.131	0.13	99		0.14	119		70-130	7		30
trans-1,3-Dichloropropene	ND	0.131	0.10	76		0.12	102		70-130	18		30
1,1,2-Trichloroethane	ND	0.131	0.13	99		0.14	119		70-130	7		30
Dibromochloromethane	ND	0.131	0.10	76		0.11	93		70-130	10		30
1,2-Dibromoethane	ND	0.131	0.11	84		0.12	102		70-130	9		30
2-Hexanone	ND	0.131	0.11	84		0.11	93		70-130	0		30

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 25 QC Batch ID: WG2135134-6 WG2135134-7 QC Sample: L2565410-25 Client ID: FROG-SS-121 (22-24)												
Chlorobenzene	ND	0.131	0.13	99		0.13	110		70-130	0		30
Ethylbenzene	ND	0.131	0.14	107		0.14	119		70-130	0		30
p/m-Xylene	ND	0.262	0.27	103		0.28	119		70-130	4		30
o-Xylene	ND	0.262	0.27	103		0.28	119		70-130	4		30
Styrene	ND	0.262	0.28	107		0.29	123		70-130	4		30
Bromoform	ND	0.131	0.087	**66**	Q	0.096	82		70-130	10		30
Isopropylbenzene	ND	0.131	0.14	107		0.14	119		70-130	0		30
1,1,2,2-Tetrachloroethane	ND	0.131	0.12	92		0.12	102		70-130	0		30
1,3-Dichlorobenzene	ND	0.131	0.11	84		0.12	102		70-130	9		30
1,4-Dichlorobenzene	ND	0.131	0.11	84		0.12	102		70-130	9		30
1,2-Dichlorobenzene	ND	0.131	0.11	84		0.12	102		70-130	9		30
1,2-Dibromo-3-chloropropane	ND	0.131	0.070	**53**	Q	0.079	**67**	Q	68-130	12		30
1,2,4-Trichlorobenzene	ND	0.131	0.082	**63**	Q	0.096	82		70-130	16		30
1,2,3-Trichlorobenzene	ND	0.131	0.081	**62**	Q	0.094	80		70-130	15		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		111		70-130
4-Bromofluorobenzene	91		92		70-130
Dibromofluoromethane	111		108		70-130
Toluene-d8	96		96		70-130

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 23-24,26,28-36,38 QC Batch ID: WG2135140-6 WG2135140-7 QC Sample: L2565410-35 Client ID: FROG-SS-116 (18.5-20.5)												
Dichlorodifluoromethane	ND	0.107	0.13	122		0.082	82		30-146	**45**	Q	30
Chloromethane	ND	0.107	0.12	112		0.088	88		52-130	**31**	Q	30
Vinyl chloride	ND	0.107	0.11	103		0.082	82		67-130	29		30
Bromomethane	ND	0.107	0.066	62		0.053	**53**	Q	57-147	22		30
Chloroethane	ND	0.107	0.086	80		0.066	66		50-151	26		30
Trichlorofluoromethane	ND	0.107	0.12	112		0.086	86		70-139	**33**	Q	30
1,1-Dichloroethene	ND	0.107	0.10	94		0.078	78		65-135	25		30
Carbon disulfide	ND	0.107	0.094	88		0.069	69		59-130	**31**	Q	30
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.107	0.12	112		0.084	84		50-139	**35**	Q	30
Methylene chloride	ND	0.107	0.087	81		0.082	82		70-130	6		30
Acetone	ND	0.107	0.069	64		0.086	86		54-140	22		30
trans-1,2-Dichloroethene	ND	0.107	0.12	112		0.10	100		70-130	18		30
Methyl Acetate	ND	0.107	0.098	92		0.10	100		51-146	2		30
Methyl tert butyl ether	ND	0.107	0.070	**65**	Q	0.090	90		66-130	25		30
1,1-Dichloroethane	ND	0.107	0.11	103		0.093	93		70-130	17		30
cis-1,2-Dichloroethene	ND	0.107	0.10	94		0.096	96		70-130	4		30
Cyclohexane	ND	0.107	0.16	**150**	Q	0.12	120		59-142	29		30
Bromochloromethane	ND	0.107	0.093	87		0.096	96		70-130	3		30
Chloroform	0.00020J	0.107	0.10	94		0.088	88		70-130	13		30

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 23-24,26,28-36,38 QC Batch ID: WG2135140-6 WG2135140-7 QC Sample: L2565410-35 Client ID: FROG-SS-116 (18.5-20.5)												
Carbon tetrachloride	ND	0.107	0.16	**150**	Q	0.12	120		70-130	29		30
1,1,1-Trichloroethane	ND	0.107	0.14	**131**	Q	0.11	110		70-130	24		30
2-Butanone	ND	0.107	0.088	82		0.11	110		70-130	22		30
Benzene	ND	0.107	0.11	103		0.097	97		70-130	13		30
1,2-Dichloroethane	ND	0.107	0.090	84		0.093	93		70-130	3		30
Methyl cyclohexane	ND	0.107	0.13	122		0.098	98		70-130	28		30
Trichloroethene	ND	0.107	0.13	122		0.10	100		70-130	26		30
1,2-Dichloropropane	ND	0.107	0.096	90		0.093	93		70-130	3		30
Bromodichloromethane	ND	0.107	0.097	91		0.096	96		70-130	1		30
1,4-Dioxane	ND	5.35	4.5	84		5.3	106		65-136	16		30
cis-1,3-Dichloropropene	ND	0.107	0.098	92		0.10	100		70-130	2		30
Toluene	ND	0.107	0.11	103		0.10	100		70-130	10		30
4-Methyl-2-pentanone	ND	0.107	0.066	**62**	Q	0.097	97		70-130	**38**	Q	30
Tetrachloroethene	ND	0.107	0.16	**150**	Q	0.13	130		70-130	21		30
trans-1,3-Dichloropropene	ND	0.107	0.090	84		0.10	100		70-130	11		30
1,1,2-Trichloroethane	ND	0.107	0.086	80		0.095	95		70-130	10		30
Dibromochloromethane	ND	0.107	0.094	88		0.10	100		70-130	6		30
1,2-Dibromoethane	ND	0.107	0.084	78		0.10	100		70-130	17		30
2-Hexanone	ND	0.107	0.063	**59**	Q	0.094	94		70-130	**39**	Q	30

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 23-24,26,28-36,38 QC Batch ID: WG2135140-6 WG2135140-7 QC Sample: L2565410-35 Client ID: FROG-SS-116 (18.5-20.5)												
Chlorobenzene	ND	0.107	0.11	103		0.10	100		70-130	10		30
Ethylbenzene	ND	0.107	0.12	112		0.10	100		70-130	18		30
p/m-Xylene	ND	0.214	0.24	112		0.20	100		70-130	18		30
o-Xylene	ND	0.214	0.22	103		0.20	100		70-130	10		30
Styrene	ND	0.214	0.21	98		0.20	100		70-130	5		30
Bromoform	ND	0.107	0.086	80		0.11	110		70-130	24		30
Isopropylbenzene	ND	0.107	0.12	112		0.10	100		70-130	18		30
1,1,2,2-Tetrachloroethane	ND	0.107	0.071	**66**	Q	0.092	92		70-130	26		30
1,3-Dichlorobenzene	ND	0.107	0.10	94		0.10	100		70-130	0		30
1,4-Dichlorobenzene	ND	0.107	0.094	88		0.10	100		70-130	6		30
1,2-Dichlorobenzene	ND	0.107	0.091	85		0.099	99		70-130	8		30
1,2-Dibromo-3-chloropropane	ND	0.107	0.073	68		0.097	97		68-130	28		30
1,2,4-Trichlorobenzene	ND	0.107	0.088	82		0.10	100		70-130	13		30
1,2,3-Trichlorobenzene	ND	0.107	0.083	78		0.10	100		70-130	19		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		98		70-130
4-Bromofluorobenzene	83		95		70-130
Dibromofluoromethane	109		95		70-130
Toluene-d8	98		100		70-130

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 37,44-48 QC Batch ID: WG2135835-6 WG2135835-7 QC Sample: L2565410-46 Client ID: FROG-SS-122 (30-32)												
Dichlorodifluoromethane	ND	0.0897	0.075	84		0.088	71		30-146	16		30
Chloromethane	ND	0.0897	0.059	66		0.071	58		52-130	18		30
Vinyl chloride	ND	0.0897	0.066	74		0.083	67		67-130	23		30
Bromomethane	ND	0.0897	0.073	81		0.090	73		57-147	21		30
Chloroethane	ND	0.0897	0.070	78		0.089	72		50-151	24		30
Trichlorofluoromethane	ND	0.0897	0.076	85		0.085	**69**	Q	70-139	11		30
1,1-Dichloroethene	ND	0.0897	0.041	**46**	Q	0.055	**45**	Q	65-135	29		30
Carbon disulfide	ND	0.0897	0.026	**29**	Q	0.034	**28**	Q	59-130	27		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.0897	0.065	72		0.085	69		50-139	27		30
Methylene chloride	ND	0.0897	0.042	**47**	Q	0.055	**45**	Q	70-130	27		30
Acetone	ND	0.0897	0.073	81		0.083	67		54-140	13		30
trans-1,2-Dichloroethene	ND	0.0897	0.029	**32**	Q	0.039	**32**	Q	70-130	29		30
Methyl Acetate	ND	0.0897	0.075	84		0.097	79		51-146	26		30
Methyl tert butyl ether	ND	0.0897	0.073	81		0.087	71		66-130	18		30
1,1-Dichloroethane	ND	0.0897	0.040	**45**	Q	0.053	**43**	Q	70-130	28		30
cis-1,2-Dichloroethene	ND	0.0897	0.039	**44**	Q	0.048	**39**	Q	70-130	21		30
Cyclohexane	ND	0.0897	0.014	**16**	Q	0.021	**17**	Q	59-142	**40**	Q	30
Bromochloromethane	ND	0.0897	0.050	**56**	Q	0.064	**52**	Q	70-130	25		30
Chloroform	0.00034J	0.0897	0.039	**44**	Q	0.051	**41**	Q	70-130	27		30

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 37,44-48 QC Batch ID: WG2135835-6 WG2135835-7 QC Sample: L2565410-46 Client ID: FROG-SS-122 (30-32)												
Carbon tetrachloride	ND	0.0897	0.022	**24**	Q	0.030	**24**	Q	70-130	**31**	Q	30
1,1,1-Trichloroethane	ND	0.0897	0.030	**33**	Q	0.041	**33**	Q	70-130	**31**	Q	30
2-Butanone	ND	0.0897	0.074	82		0.080	**65**	Q	70-130	8		30
Benzene	ND	0.0897	0.032	**36**	Q	0.041	**33**	Q	70-130	25		30
1,2-Dichloroethane	ND	0.0897	0.047	**52**	Q	0.060	**49**	Q	70-130	24		30
Methyl cyclohexane	ND	0.0897	0.0087	**10**	Q	0.012	**10**	Q	70-130	**32**	Q	30
Trichloroethene	ND	0.0897	0.025	**28**	Q	0.030	**24**	Q	70-130	18		30
1,2-Dichloropropane	ND	0.0897	0.039	**44**	Q	0.051	**41**	Q	70-130	27		30
Bromodichloromethane	ND	0.0897	0.041	**46**	Q	0.052	**42**	Q	70-130	24		30
1,4-Dioxane	ND	4.49	5.4	120		5.6	91		65-136	4		30
cis-1,3-Dichloropropene	ND	0.0897	0.040	**45**	Q	0.049	**40**	Q	70-130	20		30
Toluene	ND	0.0897	0.023	**26**	Q	0.026	**21**	Q	70-130	12		30
4-Methyl-2-pentanone	ND	0.0897	0.068	76		0.076	**62**	Q	70-130	11		30
Tetrachloroethene	ND	0.0897	0.018	**20**	Q	0.020	**16**	Q	70-130	11		30
trans-1,3-Dichloropropene	ND	0.0897	0.042	**47**	Q	0.049	**40**	Q	70-130	15		30
1,1,2-Trichloroethane	ND	0.0897	0.048	**54**	Q	0.059	**48**	Q	70-130	21		30
Dibromochloromethane	ND	0.0897	0.048	**54**	Q	0.058	**47**	Q	70-130	19		30
1,2-Dibromoethane	ND	0.0897	0.051	**57**	Q	0.060	**49**	Q	70-130	16		30
2-Hexanone	ND	0.0897	0.068	76		0.070	**57**	Q	70-130	3		30

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 37,44-48 QC Batch ID: WG2135835-6 WG2135835-7 QC Sample: L2565410-46 Client ID: FROG-SS-122 (30-32)												
Chlorobenzene	ND	0.0897	0.027	**30**	Q	0.029	**24**	Q	70-130	7		30
Ethylbenzene	ND	0.0897	0.019	**21**	Q	0.019	**15**	Q	70-130	0		30
p/m-Xylene	ND	0.179	0.039	**22**	Q	0.038	**15**	Q	70-130	3		30
o-Xylene	ND	0.179	0.046	**26**	Q	0.046	**19**	Q	70-130	0		30
Styrene	ND	0.179	0.050	**28**	Q	0.050	**20**	Q	70-130	0		30
Bromoform	ND	0.0897	0.051	**57**	Q	0.059	**48**	Q	70-130	15		30
Isopropylbenzene	ND	0.0897	0.014	**16**	Q	0.013	**11**	Q	70-130	7		30
1,1,2,2-Tetrachloroethane	ND	0.0897	0.048	**54**	Q	0.055	**45**	Q	70-130	14		30
1,3-Dichlorobenzene	ND	0.0897	0.023	**26**	Q	0.020	**16**	Q	70-130	14		30
1,4-Dichlorobenzene	ND	0.0897	0.022	**24**	Q	0.019	**15**	Q	70-130	15		30
1,2-Dichlorobenzene	ND	0.0897	0.028	**31**	Q	0.025	**20**	Q	70-130	11		30
1,2-Dibromo-3-chloropropane	ND	0.0897	0.062	69		0.063	**51**	Q	68-130	2		30
1,2,4-Trichlorobenzene	ND	0.0897	0.025	**28**	Q	0.019	**15**	Q	70-130	27		30
1,2,3-Trichlorobenzene	ND	0.0897	0.029	**32**	Q	0.022	**18**	Q	70-130	27		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		98		70-130
4-Bromofluorobenzene	92		89		70-130
Dibromofluoromethane	106		106		70-130
Toluene-d8	96		96		70-130

SEMIVOLATILES

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-01
Client ID: FROG-SS-103 (0-2)
Sample Location: CARLISLE, PA
Date Collected: 10/15/25 14:45
Date Received: 10/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/21/25 08:48
Analyst: IMK
Percent Solids: 88%
Extraction Method: EPA 3546
Extraction Date: 10/19/25 02:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	0.076	J	mg/kg	0.25	0.051	1
Phenol	ND		mg/kg	0.19	0.028	1
Bis(2-chloroethyl)ether	ND		mg/kg	0.038	0.014	1
2-Chlorophenol	ND		mg/kg	0.19	0.022	1
2-Methylphenol	ND		mg/kg	0.19	0.029	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.23	0.032	1
Acetophenone	0.043	J	mg/kg	0.19	0.023	1
1,4-Dioxane	ND		mg/kg	0.028	0.0086	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.038	0.018	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.27	0.030	1
Hexachloroethane	ND		mg/kg	0.15	0.030	1
Nitrobenzene	ND		mg/kg	0.17	0.028	1
Isophorone	ND		mg/kg	0.17	0.024	1
2-Nitrophenol	ND		mg/kg	0.41	0.071	1
2,4-Dimethylphenol	ND		mg/kg	0.19	0.062	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.20	0.019	1
2,4-Dichlorophenol	ND		mg/kg	0.17	0.030	1
Naphthalene	0.057		mg/kg	0.038	0.023	1
4-Chloroaniline	ND		mg/kg	0.19	0.034	1
Hexachlorobutadiene	ND		mg/kg	0.19	0.028	1
Caprolactam	ND		mg/kg	0.19	0.057	1
p-Chloro-m-cresol	ND		mg/kg	0.19	0.028	1
2-Methylnaphthalene	0.037	J	mg/kg	0.23	0.023	1
Hexachlorocyclopentadiene	ND		mg/kg	0.54	0.17	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.19	0.020	1
2,4,6-Trichlorophenol	ND		mg/kg	0.11	0.036	1
2,4,5-Trichlorophenol	ND		mg/kg	0.19	0.036	1
Biphenyl	0.030	J	mg/kg	0.43	0.024	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-01 Date Collected: 10/15/25 14:45

Client ID: FROG-SS-103 (0-2) Date Received: 10/15/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chloronaphthalene	ND		mg/kg	0.19	0.019	1
2-Nitroaniline	ND		mg/kg	0.19	0.036	1
Dimethyl phthalate	ND		mg/kg	0.19	0.040	1
2,6-Dinitrotoluene	ND		mg/kg	0.19	0.032	1
Acenaphthylene	ND		mg/kg	0.15	0.029	1
3-Nitroaniline	ND		mg/kg	0.19	0.036	1
Acenaphthene	ND		mg/kg	0.15	0.020	1
2,4-Dinitrophenol	ND		mg/kg	0.90	0.088	1
4-Nitrophenol	ND		mg/kg	0.26	0.077	1
2,4-Dinitrotoluene	ND		mg/kg	0.19	0.038	1
Dibenzofuran	ND		mg/kg	0.19	0.018	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.19	0.038	1
Diethyl phthalate	ND		mg/kg	0.19	0.017	1
Fluorene	ND		mg/kg	0.19	0.018	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.19	0.020	1
4-Nitroaniline	ND		mg/kg	0.19	0.078	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.49	0.090	1
NDPA/DPA	ND		mg/kg	0.15	0.021	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.19	0.029	1
Hexachlorobenzene	ND		mg/kg	0.11	0.021	1
Pentachlorophenol	ND		mg/kg	0.15	0.042	1
Atrazine	ND		mg/kg	0.15	0.066	1
Phenanthrene	0.057	J	mg/kg	0.11	0.023	1
Anthracene	ND		mg/kg	0.11	0.037	1
Carbazole	ND		mg/kg	0.19	0.018	1
Di-n-butylphthalate	0.11	J	mg/kg	0.19	0.036	1
Fluoranthene	0.097	J	mg/kg	0.11	0.022	1
Pyrene	0.087	J	mg/kg	0.11	0.019	1
Butyl benzyl phthalate	ND		mg/kg	0.19	0.048	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.19	0.050	1
Benzo(a)anthracene	0.050	J	mg/kg	0.11	0.021	1
Chrysene	0.072	J	mg/kg	0.11	0.020	1
Bis(2-ethylhexyl)phthalate	0.077	J	mg/kg	0.19	0.065	1
Di-n-octylphthalate	ND		mg/kg	0.19	0.064	1
Benzo(b)fluoranthene	0.098	J	mg/kg	0.11	0.032	1
Benzo(k)fluoranthene	ND		mg/kg	0.11	0.030	1
Benzo(a)pyrene	0.063	J	mg/kg	0.15	0.046	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-01 Date Collected: 10/15/25 14:45

Client ID: FROG-SS-103 (0-2) Date Received: 10/15/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Indeno(1,2,3-cd)pyrene	0.051	J	mg/kg	0.15	0.026	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.11	0.022	1
Benzo(ghi)perylene	0.057	J	mg/kg	0.15	0.022	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	99		25-120
Phenol-d6	97		10-120
Nitrobenzene-d5	98		23-120
2-Fluorobiphenyl	**124**	Q	30-120
2,4,6-Tribromophenol	127		10-136
4-Terphenyl-d14	119		18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-02
Client ID: FROG-SS-103 (28-30)
Sample Location: CARLISLE, PA

Date Collected: 10/15/25 15:13
Date Received: 10/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/21/25 03:39
Analyst: IMK
Percent Solids: 70%

Extraction Method: EPA 3546
Extraction Date: 10/19/25 02:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.31	0.064	1
Phenol	ND		mg/kg	0.24	0.036	1
Bis(2-chloroethyl)ether	ND		mg/kg	0.047	0.017	1
2-Chlorophenol	ND		mg/kg	0.24	0.028	1
2-Methylphenol	ND		mg/kg	0.24	0.036	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.28	0.040	1
Acetophenone	ND		mg/kg	0.24	0.029	1
1,4-Dioxane	ND		mg/kg	0.035	0.011	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.047	0.022	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.34	0.037	1
Hexachloroethane	ND		mg/kg	0.19	0.038	1
Nitrobenzene	ND		mg/kg	0.21	0.035	1
Isophorone	ND		mg/kg	0.21	0.030	1
2-Nitrophenol	ND		mg/kg	0.51	0.088	1
2,4-Dimethylphenol	ND		mg/kg	0.24	0.078	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.25	0.024	1
2,4-Dichlorophenol	ND		mg/kg	0.21	0.038	1
Naphthalene	ND		mg/kg	0.047	0.029	1
4-Chloroaniline	ND		mg/kg	0.24	0.043	1
Hexachlorobutadiene	ND		mg/kg	0.24	0.034	1
Caprolactam	ND		mg/kg	0.24	0.072	1
p-Chloro-m-cresol	ND		mg/kg	0.24	0.035	1
2-Methylnaphthalene	ND		mg/kg	0.28	0.028	1
Hexachlorocyclopentadiene	ND		mg/kg	0.67	0.21	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.24	0.024	1
2,4,6-Trichlorophenol	ND		mg/kg	0.14	0.044	1
2,4,5-Trichlorophenol	ND		mg/kg	0.24	0.045	1
Biphenyl	ND		mg/kg	0.54	0.030	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-02 Date Collected: 10/15/25 15:13

Client ID: FROG-SS-103 (28-30) Date Received: 10/15/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chloronaphthalene	ND		mg/kg	0.24	0.023	1
2-Nitroaniline	ND		mg/kg	0.24	0.045	1
Dimethyl phthalate	ND		mg/kg	0.24	0.049	1
2,6-Dinitrotoluene	ND		mg/kg	0.24	0.040	1
Acenaphthylene	ND		mg/kg	0.19	0.036	1
3-Nitroaniline	ND		mg/kg	0.24	0.044	1
Acenaphthene	ND		mg/kg	0.19	0.024	1
2,4-Dinitrophenol	ND		mg/kg	1.1	0.11	1
4-Nitrophenol	ND		mg/kg	0.33	0.096	1
2,4-Dinitrotoluene	ND		mg/kg	0.24	0.047	1
Dibenzofuran	ND		mg/kg	0.24	0.022	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.24	0.048	1
Diethyl phthalate	ND		mg/kg	0.24	0.022	1
Fluorene	ND		mg/kg	0.24	0.023	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.24	0.025	1
4-Nitroaniline	ND		mg/kg	0.24	0.097	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.61	0.11	1
NDPA/DPA	ND		mg/kg	0.19	0.027	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.24	0.036	1
Hexachlorobenzene	ND		mg/kg	0.14	0.026	1
Pentachlorophenol	ND		mg/kg	0.19	0.052	1
Atrazine	ND		mg/kg	0.19	0.082	1
Phenanthrene	ND		mg/kg	0.14	0.029	1
Anthracene	ND		mg/kg	0.14	0.046	1
Carbazole	ND		mg/kg	0.24	0.023	1
Di-n-butylphthalate	ND		mg/kg	0.24	0.044	1
Fluoranthene	ND		mg/kg	0.14	0.027	1
Pyrene	ND		mg/kg	0.14	0.023	1
Butyl benzyl phthalate	ND		mg/kg	0.24	0.059	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.24	0.062	1
Benzo(a)anthracene	ND		mg/kg	0.14	0.026	1
Chrysene	ND		mg/kg	0.14	0.024	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.24	0.081	1
Di-n-octylphthalate	ND		mg/kg	0.24	0.080	1
Benzo(b)fluoranthene	ND		mg/kg	0.14	0.040	1
Benzo(k)fluoranthene	ND		mg/kg	0.14	0.038	1
Benzo(a)pyrene	ND		mg/kg	0.19	0.057	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-02 Date Collected: 10/15/25 15:13

Client ID: FROG-SS-103 (28-30) Date Received: 10/15/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.19	0.033	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.14	0.027	1
Benzo(ghi)perylene	ND		mg/kg	0.19	0.028	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	102		30-120
2,4,6-Tribromophenol	94		10-136
4-Terphenyl-d14	98		18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-03
Client ID: FROG-SS-104 (0-2)
Sample Location: CARLISLE, PA

Date Collected: 10/15/25 13:43
Date Received: 10/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/21/25 06:39
Analyst: IMK
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 10/19/25 02:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.27	0.056	1
Phenol	ND		mg/kg	0.21	0.031	1
Bis(2-chloroethyl)ether	ND		mg/kg	0.041	0.015	1
2-Chlorophenol	ND		mg/kg	0.21	0.024	1
2-Methylphenol	ND		mg/kg	0.21	0.032	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.25	0.035	1
Acetophenone	ND		mg/kg	0.21	0.026	1
1,4-Dioxane	ND		mg/kg	0.031	0.0094	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.041	0.020	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.30	0.032	1
Hexachloroethane	ND		mg/kg	0.16	0.033	1
Nitrobenzene	ND		mg/kg	0.19	0.031	1
Isophorone	ND		mg/kg	0.19	0.027	1
2-Nitrophenol	ND		mg/kg	0.45	0.078	1
2,4-Dimethylphenol	ND		mg/kg	0.21	0.068	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.22	0.021	1
2,4-Dichlorophenol	ND		mg/kg	0.19	0.033	1
Naphthalene	ND		mg/kg	0.041	0.025	1
4-Chloroaniline	ND		mg/kg	0.21	0.038	1
Hexachlorobutadiene	ND		mg/kg	0.21	0.030	1
Caprolactam	ND		mg/kg	0.21	0.063	1
p-Chloro-m-cresol	ND		mg/kg	0.21	0.031	1
2-Methylnaphthalene	ND		mg/kg	0.25	0.025	1
Hexachlorocyclopentadiene	ND		mg/kg	0.59	0.19	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.21	0.022	1
2,4,6-Trichlorophenol	ND		mg/kg	0.12	0.039	1
2,4,5-Trichlorophenol	ND		mg/kg	0.21	0.040	1
Biphenyl	ND		mg/kg	0.47	0.027	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-03 Date Collected: 10/15/25 13:43

Client ID: FROG-SS-104 (0-2) Date Received: 10/15/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chloronaphthalene	ND		mg/kg	0.21	0.020	1
2-Nitroaniline	ND		mg/kg	0.21	0.040	1
Dimethyl phthalate	ND		mg/kg	0.21	0.043	1
2,6-Dinitrotoluene	ND		mg/kg	0.21	0.035	1
Acenaphthylene	ND		mg/kg	0.16	0.032	1
3-Nitroaniline	ND		mg/kg	0.21	0.039	1
Acenaphthene	ND		mg/kg	0.16	0.021	1
2,4-Dinitrophenol	ND		mg/kg	0.99	0.096	1
4-Nitrophenol	ND		mg/kg	0.29	0.084	1
2,4-Dinitrotoluene	ND		mg/kg	0.21	0.041	1
Dibenzofuran	ND		mg/kg	0.21	0.020	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.21	0.042	1
Diethyl phthalate	ND		mg/kg	0.21	0.019	1
Fluorene	ND		mg/kg	0.21	0.020	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.21	0.022	1
4-Nitroaniline	ND		mg/kg	0.21	0.086	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.54	0.099	1
NDPA/DPA	ND		mg/kg	0.16	0.024	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.21	0.032	1
Hexachlorobenzene	ND		mg/kg	0.12	0.023	1
Pentachlorophenol	ND		mg/kg	0.16	0.046	1
Atrazine	ND		mg/kg	0.16	0.072	1
Phenanthrene	ND		mg/kg	0.12	0.025	1
Anthracene	ND		mg/kg	0.12	0.040	1
Carbazole	ND		mg/kg	0.21	0.020	1
Di-n-butylphthalate	ND		mg/kg	0.21	0.039	1
Fluoranthene	ND		mg/kg	0.12	0.024	1
Pyrene	ND		mg/kg	0.12	0.020	1
Butyl benzyl phthalate	ND		mg/kg	0.21	0.052	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.21	0.055	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.023	1
Chrysene	ND		mg/kg	0.12	0.022	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.21	0.072	1
Di-n-octylphthalate	ND		mg/kg	0.21	0.070	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.035	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.033	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.050	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-03 Date Collected: 10/15/25 13:43

Client ID: FROG-SS-104 (0-2) Date Received: 10/15/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.029	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.024	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.024	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	89		25-120
Phenol-d6	85		10-120
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	101		30-120
2,4,6-Tribromophenol	104		10-136
4-Terphenyl-d14	99		18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-04
Client ID: FROG-SS-104 (13-15)
Sample Location: CARLISLE, PA
Date Collected: 10/15/25 13:47
Date Received: 10/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/21/25 01:56
Analyst: IMK
Percent Solids: 81%
Extraction Method: EPA 3546
Extraction Date: 10/19/25 02:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.27	0.055	1
Phenol	ND		mg/kg	0.20	0.031	1
Bis(2-chloroethyl)ether	ND		mg/kg	0.040	0.015	1
2-Chlorophenol	ND		mg/kg	0.20	0.024	1
2-Methylphenol	ND		mg/kg	0.20	0.031	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.24	0.035	1
Acetophenone	ND		mg/kg	0.20	0.025	1
1,4-Dioxane	ND		mg/kg	0.030	0.0092	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.040	0.019	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.29	0.032	1
Hexachloroethane	ND		mg/kg	0.16	0.033	1
Nitrobenzene	ND		mg/kg	0.18	0.030	1
Isophorone	ND		mg/kg	0.18	0.026	1
2-Nitrophenol	ND		mg/kg	0.44	0.076	1
2,4-Dimethylphenol	ND		mg/kg	0.20	0.067	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.22	0.020	1
2,4-Dichlorophenol	ND		mg/kg	0.18	0.032	1
Naphthalene	ND		mg/kg	0.040	0.025	1
4-Chloroaniline	ND		mg/kg	0.20	0.037	1
Hexachlorobutadiene	ND		mg/kg	0.20	0.030	1
Caprolactam	ND		mg/kg	0.20	0.062	1
p-Chloro-m-cresol	ND		mg/kg	0.20	0.030	1
2-Methylnaphthalene	ND		mg/kg	0.24	0.024	1
Hexachlorocyclopentadiene	ND		mg/kg	0.58	0.18	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.20	0.021	1
2,4,6-Trichlorophenol	ND		mg/kg	0.12	0.038	1
2,4,5-Trichlorophenol	ND		mg/kg	0.20	0.039	1
Biphenyl	ND		mg/kg	0.46	0.026	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-04 Date Collected: 10/15/25 13:47

Client ID: FROG-SS-104 (13-15) Date Received: 10/15/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chloronaphthalene	ND		mg/kg	0.20	0.020	1
2-Nitroaniline	ND		mg/kg	0.20	0.039	1
Dimethyl phthalate	ND		mg/kg	0.20	0.042	1
2,6-Dinitrotoluene	ND		mg/kg	0.20	0.035	1
Acenaphthylene	ND		mg/kg	0.16	0.031	1
3-Nitroaniline	ND		mg/kg	0.20	0.038	1
Acenaphthene	ND		mg/kg	0.16	0.021	1
2,4-Dinitrophenol	ND		mg/kg	0.97	0.094	1
4-Nitrophenol	ND		mg/kg	0.28	0.083	1
2,4-Dinitrotoluene	ND		mg/kg	0.20	0.040	1
Dibenzofuran	ND		mg/kg	0.20	0.019	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.20	0.041	1
Diethyl phthalate	ND		mg/kg	0.20	0.019	1
Fluorene	ND		mg/kg	0.20	0.020	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.20	0.022	1
4-Nitroaniline	ND		mg/kg	0.20	0.084	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.53	0.097	1
NDPA/DPA	ND		mg/kg	0.16	0.023	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.20	0.031	1
Hexachlorobenzene	ND		mg/kg	0.12	0.023	1
Pentachlorophenol	ND		mg/kg	0.16	0.045	1
Atrazine	ND		mg/kg	0.16	0.071	1
Phenanthrene	ND		mg/kg	0.12	0.025	1
Anthracene	ND		mg/kg	0.12	0.040	1
Carbazole	ND		mg/kg	0.20	0.020	1
Di-n-butylphthalate	ND		mg/kg	0.20	0.038	1
Fluoranthene	ND		mg/kg	0.12	0.023	1
Pyrene	ND		mg/kg	0.12	0.020	1
Butyl benzyl phthalate	ND		mg/kg	0.20	0.051	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.20	0.054	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.023	1
Chrysene	ND		mg/kg	0.12	0.021	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.20	0.070	1
Di-n-octylphthalate	ND		mg/kg	0.20	0.069	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.034	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.032	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.049	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-04 Date Collected: 10/15/25 13:47

Client ID: FROG-SS-104 (13-15) Date Received: 10/15/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.028	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.023	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.024	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	96		25-120
Phenol-d6	88		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	103		30-120
2,4,6-Tribromophenol	122		10-136
4-Terphenyl-d14	109		18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-05
Client ID: FROG-SS-105 (1-3)
Sample Location: CARLISLE, PA
Date Collected: 10/15/25 11:52
Date Received: 10/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/21/25 08:22
Analyst: IMK
Percent Solids: 88%
Extraction Method: EPA 3546
Extraction Date: 10/19/25 02:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.25	0.051	1
Phenol	ND		mg/kg	0.19	0.028	1
Bis(2-chloroethyl)ether	ND		mg/kg	0.038	0.014	1
2-Chlorophenol	ND		mg/kg	0.19	0.022	1
2-Methylphenol	ND		mg/kg	0.19	0.029	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.22	0.032	1
Acetophenone	ND		mg/kg	0.19	0.023	1
1,4-Dioxane	ND		mg/kg	0.028	0.0086	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.038	0.018	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.27	0.029	1
Hexachloroethane	ND		mg/kg	0.15	0.030	1
Nitrobenzene	ND		mg/kg	0.17	0.028	1
Isophorone	ND		mg/kg	0.17	0.024	1
2-Nitrophenol	ND		mg/kg	0.41	0.071	1
2,4-Dimethylphenol	ND		mg/kg	0.19	0.062	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.20	0.019	1
2,4-Dichlorophenol	ND		mg/kg	0.17	0.030	1
Naphthalene	0.14		mg/kg	0.038	0.023	1
4-Chloroaniline	ND		mg/kg	0.19	0.034	1
Hexachlorobutadiene	ND		mg/kg	0.19	0.028	1
Caprolactam	ND		mg/kg	0.19	0.057	1
p-Chloro-m-cresol	ND		mg/kg	0.19	0.028	1
2-Methylnaphthalene	0.24		mg/kg	0.22	0.023	1
Hexachlorocyclopentadiene	ND		mg/kg	0.54	0.17	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.19	0.020	1
2,4,6-Trichlorophenol	ND		mg/kg	0.11	0.036	1
2,4,5-Trichlorophenol	ND		mg/kg	0.19	0.036	1
Biphenyl	0.046	J	mg/kg	0.43	0.024	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-05 Date Collected: 10/15/25 11:52

Client ID: FROG-SS-105 (1-3) Date Received: 10/15/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chloronaphthalene	ND		mg/kg	0.19	0.019	1
2-Nitroaniline	ND		mg/kg	0.19	0.036	1
Dimethyl phthalate	ND		mg/kg	0.19	0.039	1
2,6-Dinitrotoluene	ND		mg/kg	0.19	0.032	1
Acenaphthylene	0.051	J	mg/kg	0.15	0.029	1
3-Nitroaniline	ND		mg/kg	0.19	0.035	1
Acenaphthene	0.034	J	mg/kg	0.15	0.019	1
2,4-Dinitrophenol	ND		mg/kg	0.90	0.088	1
4-Nitrophenol	ND		mg/kg	0.26	0.077	1
2,4-Dinitrotoluene	ND		mg/kg	0.19	0.038	1
Dibenzofuran	0.050	J	mg/kg	0.19	0.018	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.19	0.038	1
Diethyl phthalate	ND		mg/kg	0.19	0.017	1
Fluorene	0.059	J	mg/kg	0.19	0.018	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.19	0.020	1
4-Nitroaniline	ND		mg/kg	0.19	0.078	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.49	0.090	1
NDPA/DPA	ND		mg/kg	0.15	0.021	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.19	0.029	1
Hexachlorobenzene	ND		mg/kg	0.11	0.021	1
Pentachlorophenol	ND		mg/kg	0.15	0.041	1
Atrazine	ND		mg/kg	0.15	0.066	1
Phenanthrene	0.42		mg/kg	0.11	0.023	1
Anthracene	0.071	J	mg/kg	0.11	0.037	1
Carbazole	0.046	J	mg/kg	0.19	0.018	1
Di-n-butylphthalate	ND		mg/kg	0.19	0.036	1
Fluoranthene	0.47		mg/kg	0.11	0.022	1
Pyrene	0.41		mg/kg	0.11	0.019	1
Butyl benzyl phthalate	ND		mg/kg	0.19	0.047	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.19	0.050	1
Benzo(a)anthracene	0.22		mg/kg	0.11	0.021	1
Chrysene	0.30		mg/kg	0.11	0.020	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.19	0.065	1
Di-n-octylphthalate	ND		mg/kg	0.19	0.064	1
Benzo(b)fluoranthene	0.33		mg/kg	0.11	0.032	1
Benzo(k)fluoranthene	0.076	J	mg/kg	0.11	0.030	1
Benzo(a)pyrene	0.21		mg/kg	0.15	0.046	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-05 Date Collected: 10/15/25 11:52

Client ID: FROG-SS-105 (1-3) Date Received: 10/15/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Indeno(1,2,3-cd)pyrene	0.14	J	mg/kg	0.15	0.026	1
Dibenzo(a,h)anthracene	0.034	J	mg/kg	0.11	0.022	1
Benzo(ghi)perylene	0.15		mg/kg	0.15	0.022	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		25-120
Phenol-d6	58		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	78		30-120
2,4,6-Tribromophenol	77		10-136
4-Terphenyl-d14	72		18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-06
Client ID: FROG-SS-105 (13-15)
Sample Location: CARLISLE, PA
Date Collected: 10/15/25 11:54
Date Received: 10/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/21/25 03:13
Analyst: IMK
Percent Solids: 74%
Extraction Method: EPA 3546
Extraction Date: 10/19/25 02:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.29	0.060	1
Phenol	ND		mg/kg	0.22	0.034	1
Bis(2-chloroethyl)ether	ND		mg/kg	0.044	0.016	1
2-Chlorophenol	ND		mg/kg	0.22	0.026	1
2-Methylphenol	ND		mg/kg	0.22	0.034	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.27	0.038	1
Acetophenone	ND		mg/kg	0.22	0.027	1
1,4-Dioxane	ND		mg/kg	0.033	0.010	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.044	0.021	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.32	0.035	1
Hexachloroethane	ND		mg/kg	0.18	0.036	1
Nitrobenzene	ND		mg/kg	0.20	0.033	1
Isophorone	ND		mg/kg	0.20	0.029	1
2-Nitrophenol	ND		mg/kg	0.48	0.083	1
2,4-Dimethylphenol	ND		mg/kg	0.22	0.073	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.24	0.022	1
2,4-Dichlorophenol	ND		mg/kg	0.20	0.036	1
Naphthalene	ND		mg/kg	0.044	0.027	1
4-Chloroaniline	ND		mg/kg	0.22	0.040	1
Hexachlorobutadiene	ND		mg/kg	0.22	0.032	1
Caprolactam	ND		mg/kg	0.22	0.067	1
p-Chloro-m-cresol	ND		mg/kg	0.22	0.033	1
2-Methylnaphthalene	ND		mg/kg	0.27	0.027	1
Hexachlorocyclopentadiene	ND		mg/kg	0.63	0.20	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.22	0.023	1
2,4,6-Trichlorophenol	ND		mg/kg	0.13	0.042	1
2,4,5-Trichlorophenol	ND		mg/kg	0.22	0.042	1
Biphenyl	ND		mg/kg	0.51	0.029	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-06 Date Collected: 10/15/25 11:54

Client ID: FROG-SS-105 (13-15) Date Received: 10/15/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chloronaphthalene	ND		mg/kg	0.22	0.022	1
2-Nitroaniline	ND		mg/kg	0.22	0.043	1
Dimethyl phthalate	ND		mg/kg	0.22	0.047	1
2,6-Dinitrotoluene	ND		mg/kg	0.22	0.038	1
Acenaphthylene	ND		mg/kg	0.18	0.034	1
3-Nitroaniline	ND		mg/kg	0.22	0.042	1
Acenaphthene	ND		mg/kg	0.18	0.023	1
2,4-Dinitrophenol	ND		mg/kg	1.1	0.10	1
4-Nitrophenol	ND		mg/kg	0.31	0.090	1
2,4-Dinitrotoluene	ND		mg/kg	0.22	0.044	1
Dibenzofuran	ND		mg/kg	0.22	0.021	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.22	0.045	1
Diethyl phthalate	ND		mg/kg	0.22	0.020	1
Fluorene	ND		mg/kg	0.22	0.022	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.22	0.024	1
4-Nitroaniline	ND		mg/kg	0.22	0.092	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.58	0.11	1
NDPA/DPA	ND		mg/kg	0.18	0.025	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.22	0.034	1
Hexachlorobenzene	ND		mg/kg	0.13	0.025	1
Pentachlorophenol	ND		mg/kg	0.18	0.049	1
Atrazine	ND		mg/kg	0.18	0.078	1
Phenanthrene	ND		mg/kg	0.13	0.027	1
Anthracene	ND		mg/kg	0.13	0.043	1
Carbazole	ND		mg/kg	0.22	0.022	1
Di-n-butylphthalate	ND		mg/kg	0.22	0.042	1
Fluoranthene	ND		mg/kg	0.13	0.025	1
Pyrene	ND		mg/kg	0.13	0.022	1
Butyl benzyl phthalate	ND		mg/kg	0.22	0.056	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.22	0.059	1
Benzo(a)anthracene	ND		mg/kg	0.13	0.025	1
Chrysene	ND		mg/kg	0.13	0.023	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.22	0.077	1
Di-n-octylphthalate	ND		mg/kg	0.22	0.075	1
Benzo(b)fluoranthene	ND		mg/kg	0.13	0.037	1
Benzo(k)fluoranthene	ND		mg/kg	0.13	0.036	1
Benzo(a)pyrene	ND		mg/kg	0.18	0.054	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-06 Date Collected: 10/15/25 11:54

Client ID: FROG-SS-105 (13-15) Date Received: 10/15/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.18	0.031	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.13	0.026	1
Benzo(ghi)perylene	ND		mg/kg	0.18	0.026	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	93		25-120
Phenol-d6	86		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	106		30-120
2,4,6-Tribromophenol	110		10-136
4-Terphenyl-d14	103		18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-07
Client ID: FROG-SS-108 (1-3)
Sample Location: CARLISLE, PA
Date Collected: 10/15/25 09:50
Date Received: 10/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/21/25 05:48
Analyst: IMK
Percent Solids: 78%
Extraction Method: EPA 3546
Extraction Date: 10/19/25 02:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.28	0.057	1
Phenol	ND		mg/kg	0.21	0.032	1
Bis(2-chloroethyl)ether	ND		mg/kg	0.042	0.016	1
2-Chlorophenol	ND		mg/kg	0.21	0.025	1
2-Methylphenol	ND		mg/kg	0.21	0.033	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.25	0.036	1
Acetophenone	ND		mg/kg	0.21	0.026	1
1,4-Dioxane	ND		mg/kg	0.032	0.0096	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.042	0.020	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.30	0.033	1
Hexachloroethane	ND		mg/kg	0.17	0.034	1
Nitrobenzene	ND		mg/kg	0.19	0.031	1
Isophorone	ND		mg/kg	0.19	0.027	1
2-Nitrophenol	ND		mg/kg	0.46	0.080	1
2,4-Dimethylphenol	ND		mg/kg	0.21	0.070	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.23	0.021	1
2,4-Dichlorophenol	ND		mg/kg	0.19	0.034	1
Naphthalene	ND		mg/kg	0.042	0.026	1
4-Chloroaniline	ND		mg/kg	0.21	0.038	1
Hexachlorobutadiene	ND		mg/kg	0.21	0.031	1
Caprolactam	ND		mg/kg	0.21	0.064	1
p-Chloro-m-cresol	ND		mg/kg	0.21	0.032	1
2-Methylnaphthalene	ND		mg/kg	0.25	0.026	1
Hexachlorocyclopentadiene	ND		mg/kg	0.60	0.19	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.21	0.022	1
2,4,6-Trichlorophenol	ND		mg/kg	0.13	0.040	1
2,4,5-Trichlorophenol	ND		mg/kg	0.21	0.040	1
Biphenyl	ND		mg/kg	0.48	0.027	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-07 Date Collected: 10/15/25 09:50

Client ID: FROG-SS-108 (1-3) Date Received: 10/15/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chloronaphthalene	ND		mg/kg	0.21	0.021	1
2-Nitroaniline	ND		mg/kg	0.21	0.041	1
Dimethyl phthalate	ND		mg/kg	0.21	0.044	1
2,6-Dinitrotoluene	ND		mg/kg	0.21	0.036	1
Acenaphthylene	ND		mg/kg	0.17	0.033	1
3-Nitroaniline	ND		mg/kg	0.21	0.040	1
Acenaphthene	ND		mg/kg	0.17	0.022	1
2,4-Dinitrophenol	ND		mg/kg	1.0	0.098	1
4-Nitrophenol	ND		mg/kg	0.30	0.086	1
2,4-Dinitrotoluene	ND		mg/kg	0.21	0.042	1
Dibenzofuran	ND		mg/kg	0.21	0.020	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.21	0.043	1
Diethyl phthalate	ND		mg/kg	0.21	0.020	1
Fluorene	ND		mg/kg	0.21	0.020	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.21	0.023	1
4-Nitroaniline	ND		mg/kg	0.21	0.088	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.55	0.10	1
NDPA/DPA	ND		mg/kg	0.17	0.024	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.21	0.032	1
Hexachlorobenzene	ND		mg/kg	0.13	0.024	1
Pentachlorophenol	ND		mg/kg	0.17	0.046	1
Atrazine	ND		mg/kg	0.17	0.074	1
Phenanthrene	0.040	J	mg/kg	0.13	0.026	1
Anthracene	ND		mg/kg	0.13	0.041	1
Carbazole	ND		mg/kg	0.21	0.020	1
Di-n-butylphthalate	ND		mg/kg	0.21	0.040	1
Fluoranthene	0.046	J	mg/kg	0.13	0.024	1
Pyrene	0.041	J	mg/kg	0.13	0.021	1
Butyl benzyl phthalate	ND		mg/kg	0.21	0.053	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.21	0.056	1
Benzo(a)anthracene	0.033	J	mg/kg	0.13	0.024	1
Chrysene	0.034	J	mg/kg	0.13	0.022	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.21	0.073	1
Di-n-octylphthalate	ND		mg/kg	0.21	0.072	1
Benzo(b)fluoranthene	ND		mg/kg	0.13	0.036	1
Benzo(k)fluoranthene	ND		mg/kg	0.13	0.034	1
Benzo(a)pyrene	ND		mg/kg	0.17	0.052	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-07 Date Collected: 10/15/25 09:50

Client ID: FROG-SS-108 (1-3) Date Received: 10/15/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.17	0.029	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.13	0.024	1
Benzo(ghi)perylene	ND		mg/kg	0.17	0.025	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		25-120
Phenol-d6	74		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	92		30-120
2,4,6-Tribromophenol	103		10-136
4-Terphenyl-d14	91		18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-08
Client ID: FROG-SS-108 (5.5-7.5)
Sample Location: CARLISLE, PA
Date Collected: 10/15/25 09:56
Date Received: 10/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/21/25 07:05
Analyst: IMK
Percent Solids: 77%
Extraction Method: EPA 3546
Extraction Date: 10/19/25 02:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.28	0.057	1
Phenol	ND		mg/kg	0.21	0.032	1
Bis(2-chloroethyl)ether	ND		mg/kg	0.042	0.016	1
2-Chlorophenol	ND		mg/kg	0.21	0.025	1
2-Methylphenol	ND		mg/kg	0.21	0.033	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.25	0.036	1
Acetophenone	ND		mg/kg	0.21	0.026	1
1,4-Dioxane	ND		mg/kg	0.032	0.0096	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.042	0.020	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.30	0.033	1
Hexachloroethane	ND		mg/kg	0.17	0.034	1
Nitrobenzene	ND		mg/kg	0.19	0.031	1
Isophorone	ND		mg/kg	0.19	0.027	1
2-Nitrophenol	ND		mg/kg	0.45	0.079	1
2,4-Dimethylphenol	ND		mg/kg	0.21	0.069	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.23	0.021	1
2,4-Dichlorophenol	ND		mg/kg	0.19	0.034	1
Naphthalene	ND		mg/kg	0.042	0.026	1
4-Chloroaniline	ND		mg/kg	0.21	0.038	1
Hexachlorobutadiene	ND		mg/kg	0.21	0.031	1
Caprolactam	ND		mg/kg	0.21	0.064	1
p-Chloro-m-cresol	ND		mg/kg	0.21	0.031	1
2-Methylnaphthalene	ND		mg/kg	0.25	0.025	1
Hexachlorocyclopentadiene	ND		mg/kg	0.60	0.19	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.21	0.022	1
2,4,6-Trichlorophenol	ND		mg/kg	0.13	0.040	1
2,4,5-Trichlorophenol	ND		mg/kg	0.21	0.040	1
Biphenyl	ND		mg/kg	0.48	0.027	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-08 Date Collected: 10/15/25 09:56

Client ID: FROG-SS-108 (5.5-7.5) Date Received: 10/15/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chloronaphthalene	ND		mg/kg	0.21	0.021	1
2-Nitroaniline	ND		mg/kg	0.21	0.040	1
Dimethyl phthalate	ND		mg/kg	0.21	0.044	1
2,6-Dinitrotoluene	ND		mg/kg	0.21	0.036	1
Acenaphthylene	ND		mg/kg	0.17	0.032	1
3-Nitroaniline	ND		mg/kg	0.21	0.040	1
Acenaphthene	ND		mg/kg	0.17	0.022	1
2,4-Dinitrophenol	ND		mg/kg	1.0	0.098	1
4-Nitrophenol	ND		mg/kg	0.29	0.086	1
2,4-Dinitrotoluene	ND		mg/kg	0.21	0.042	1
Dibenzofuran	ND		mg/kg	0.21	0.020	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.21	0.042	1
Diethyl phthalate	ND		mg/kg	0.21	0.019	1
Fluorene	ND		mg/kg	0.21	0.020	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.21	0.022	1
4-Nitroaniline	ND		mg/kg	0.21	0.087	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.55	0.10	1
NDPA/DPA	ND		mg/kg	0.17	0.024	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.21	0.032	1
Hexachlorobenzene	ND		mg/kg	0.13	0.024	1
Pentachlorophenol	ND		mg/kg	0.17	0.046	1
Atrazine	ND		mg/kg	0.17	0.074	1
Phenanthrene	ND		mg/kg	0.13	0.026	1
Anthracene	ND		mg/kg	0.13	0.041	1
Carbazole	ND		mg/kg	0.21	0.020	1
Di-n-butylphthalate	ND		mg/kg	0.21	0.040	1
Fluoranthene	ND		mg/kg	0.13	0.024	1
Pyrene	ND		mg/kg	0.13	0.021	1
Butyl benzyl phthalate	ND		mg/kg	0.21	0.053	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.21	0.056	1
Benzo(a)anthracene	ND		mg/kg	0.13	0.024	1
Chrysene	ND		mg/kg	0.13	0.022	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.21	0.073	1
Di-n-octylphthalate	ND		mg/kg	0.21	0.072	1
Benzo(b)fluoranthene	ND		mg/kg	0.13	0.035	1
Benzo(k)fluoranthene	ND		mg/kg	0.13	0.034	1
Benzo(a)pyrene	ND		mg/kg	0.17	0.051	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-08 Date Collected: 10/15/25 09:56

Client ID: FROG-SS-108 (5.5-7.5) Date Received: 10/15/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.17	0.029	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.13	0.024	1
Benzo(ghi)perylene	ND		mg/kg	0.17	0.025	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		25-120
Phenol-d6	77		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	94		30-120
2,4,6-Tribromophenol	100		10-136
4-Terphenyl-d14	95		18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-09
Client ID: FROG-SS-109 (2.5-4.5)
Sample Location: CARLISLE, PA

Date Collected: 10/15/25 09:58
Date Received: 10/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/21/25 07:30
Analyst: IMK
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 10/19/25 02:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.26	0.054	1
Phenol	ND		mg/kg	0.20	0.030	1
Bis(2-chloroethyl)ether	ND		mg/kg	0.040	0.015	1
2-Chlorophenol	ND		mg/kg	0.20	0.024	1
2-Methylphenol	ND		mg/kg	0.20	0.031	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.24	0.034	1
Acetophenone	ND		mg/kg	0.20	0.025	1
1,4-Dioxane	ND		mg/kg	0.030	0.0091	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.040	0.019	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.29	0.031	1
Hexachloroethane	ND		mg/kg	0.16	0.032	1
Nitrobenzene	ND		mg/kg	0.18	0.029	1
Isophorone	ND		mg/kg	0.18	0.026	1
2-Nitrophenol	ND		mg/kg	0.43	0.075	1
2,4-Dimethylphenol	ND		mg/kg	0.20	0.066	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.22	0.020	1
2,4-Dichlorophenol	ND		mg/kg	0.18	0.032	1
Naphthalene	ND		mg/kg	0.040	0.024	1
4-Chloroaniline	ND		mg/kg	0.20	0.036	1
Hexachlorobutadiene	ND		mg/kg	0.20	0.029	1
Caprolactam	ND		mg/kg	0.20	0.060	1
p-Chloro-m-cresol	ND		mg/kg	0.20	0.030	1
2-Methylnaphthalene	ND		mg/kg	0.24	0.024	1
Hexachlorocyclopentadiene	ND		mg/kg	0.57	0.18	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.20	0.021	1
2,4,6-Trichlorophenol	ND		mg/kg	0.12	0.038	1
2,4,5-Trichlorophenol	ND		mg/kg	0.20	0.038	1
Biphenyl	ND		mg/kg	0.45	0.026	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-09 Date Collected: 10/15/25 09:58

Client ID: FROG-SS-109 (2.5-4.5) Date Received: 10/15/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chloronaphthalene	ND		mg/kg	0.20	0.020	1
2-Nitroaniline	ND		mg/kg	0.20	0.038	1
Dimethyl phthalate	ND		mg/kg	0.20	0.042	1
2,6-Dinitrotoluene	ND		mg/kg	0.20	0.034	1
Acenaphthylene	0.086	J	mg/kg	0.16	0.031	1
3-Nitroaniline	ND		mg/kg	0.20	0.038	1
Acenaphthene	ND		mg/kg	0.16	0.021	1
2,4-Dinitrophenol	ND		mg/kg	0.96	0.093	1
4-Nitrophenol	ND		mg/kg	0.28	0.081	1
2,4-Dinitrotoluene	ND		mg/kg	0.20	0.040	1
Dibenzofuran	ND		mg/kg	0.20	0.019	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.20	0.040	1
Diethyl phthalate	ND		mg/kg	0.20	0.018	1
Fluorene	ND		mg/kg	0.20	0.019	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.20	0.021	1
4-Nitroaniline	ND		mg/kg	0.20	0.082	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.52	0.096	1
NDPA/DPA	ND		mg/kg	0.16	0.023	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.20	0.030	1
Hexachlorobenzene	ND		mg/kg	0.12	0.022	1
Pentachlorophenol	ND		mg/kg	0.16	0.044	1
Atrazine	ND		mg/kg	0.16	0.070	1
Phenanthrene	0.13		mg/kg	0.12	0.024	1
Anthracene	ND		mg/kg	0.12	0.039	1
Carbazole	ND		mg/kg	0.20	0.019	1
Di-n-butylphthalate	ND		mg/kg	0.20	0.038	1
Fluoranthene	0.24		mg/kg	0.12	0.023	1
Pyrene	0.30		mg/kg	0.12	0.020	1
Butyl benzyl phthalate	ND		mg/kg	0.20	0.050	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.20	0.053	1
Benzo(a)anthracene	0.13		mg/kg	0.12	0.022	1
Chrysene	0.17		mg/kg	0.12	0.021	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.20	0.069	1
Di-n-octylphthalate	ND		mg/kg	0.20	0.068	1
Benzo(b)fluoranthene	0.17		mg/kg	0.12	0.034	1
Benzo(k)fluoranthene	0.054	J	mg/kg	0.12	0.032	1
Benzo(a)pyrene	0.14	J	mg/kg	0.16	0.048	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-09 Date Collected: 10/15/25 09:58

Client ID: FROG-SS-109 (2.5-4.5) Date Received: 10/15/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Indeno(1,2,3-cd)pyrene	0.088	J	mg/kg	0.16	0.028	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.023	1
Benzo(ghi)perylene	0.10	J	mg/kg	0.16	0.023	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	86		25-120
Phenol-d6	82		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	93		30-120
2,4,6-Tribromophenol	110		10-136
4-Terphenyl-d14	97		18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-10
Client ID: FROG-SS-109 (8-10)
Sample Location: CARLISLE, PA

Date Collected: 10/15/25 08:47
Date Received: 10/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/21/25 01:30
Analyst: IMK
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 10/19/25 02:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.27	0.055	1
Phenol	ND		mg/kg	0.20	0.031	1
Bis(2-chloroethyl)ether	ND		mg/kg	0.041	0.015	1
2-Chlorophenol	ND		mg/kg	0.20	0.024	1
2-Methylphenol	ND		mg/kg	0.20	0.031	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.24	0.035	1
Acetophenone	ND		mg/kg	0.20	0.025	1
1,4-Dioxane	ND		mg/kg	0.030	0.0093	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.041	0.019	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.29	0.032	1
Hexachloroethane	ND		mg/kg	0.16	0.033	1
Nitrobenzene	ND		mg/kg	0.18	0.030	1
Isophorone	ND		mg/kg	0.18	0.026	1
2-Nitrophenol	ND		mg/kg	0.44	0.076	1
2,4-Dimethylphenol	ND		mg/kg	0.20	0.067	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.22	0.020	1
2,4-Dichlorophenol	ND		mg/kg	0.18	0.033	1
Naphthalene	ND		mg/kg	0.041	0.025	1
4-Chloroaniline	ND		mg/kg	0.20	0.037	1
Hexachlorobutadiene	ND		mg/kg	0.20	0.030	1
Caprolactam	ND		mg/kg	0.20	0.062	1
p-Chloro-m-cresol	ND		mg/kg	0.20	0.030	1
2-Methylnaphthalene	ND		mg/kg	0.24	0.024	1
Hexachlorocyclopentadiene	ND		mg/kg	0.58	0.18	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.20	0.021	1
2,4,6-Trichlorophenol	ND		mg/kg	0.12	0.038	1
2,4,5-Trichlorophenol	ND		mg/kg	0.20	0.039	1
Biphenyl	ND		mg/kg	0.46	0.026	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-10 Date Collected: 10/15/25 08:47

Client ID: FROG-SS-109 (8-10) Date Received: 10/15/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chloronaphthalene	ND		mg/kg	0.20	0.020	1
2-Nitroaniline	ND		mg/kg	0.20	0.039	1
Dimethyl phthalate	ND		mg/kg	0.20	0.043	1
2,6-Dinitrotoluene	ND		mg/kg	0.20	0.035	1
Acenaphthylene	ND		mg/kg	0.16	0.031	1
3-Nitroaniline	ND		mg/kg	0.20	0.038	1
Acenaphthene	ND		mg/kg	0.16	0.021	1
2,4-Dinitrophenol	ND		mg/kg	0.98	0.095	1
4-Nitrophenol	ND		mg/kg	0.28	0.083	1
2,4-Dinitrotoluene	ND		mg/kg	0.20	0.041	1
Dibenzofuran	ND		mg/kg	0.20	0.019	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.20	0.041	1
Diethyl phthalate	ND		mg/kg	0.20	0.019	1
Fluorene	ND		mg/kg	0.20	0.020	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.20	0.022	1
4-Nitroaniline	ND		mg/kg	0.20	0.084	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.53	0.098	1
NDPA/DPA	ND		mg/kg	0.16	0.023	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.20	0.031	1
Hexachlorobenzene	ND		mg/kg	0.12	0.023	1
Pentachlorophenol	ND		mg/kg	0.16	0.045	1
Atrazine	ND		mg/kg	0.16	0.071	1
Phenanthrene	ND		mg/kg	0.12	0.025	1
Anthracene	ND		mg/kg	0.12	0.040	1
Carbazole	ND		mg/kg	0.20	0.020	1
Di-n-butylphthalate	ND		mg/kg	0.20	0.038	1
Fluoranthene	ND		mg/kg	0.12	0.023	1
Pyrene	ND		mg/kg	0.12	0.020	1
Butyl benzyl phthalate	ND		mg/kg	0.20	0.051	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.20	0.054	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.023	1
Chrysene	ND		mg/kg	0.12	0.021	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.20	0.070	1
Di-n-octylphthalate	ND		mg/kg	0.20	0.069	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.034	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.032	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.050	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-10 Date Collected: 10/15/25 08:47

Client ID: FROG-SS-109 (8-10) Date Received: 10/15/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.028	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.023	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.024	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	88		30-120
2,4,6-Tribromophenol	98		10-136
4-Terphenyl-d14	89		18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-11
Client ID: FROG-SS-110 (1.5-3.5)
Sample Location: CARLISLE, PA

Date Collected: 10/15/25 10:46
Date Received: 10/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/21/25 06:13
Analyst: IMK
Percent Solids: 96%

Extraction Method: EPA 3546
Extraction Date: 10/19/25 02:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	0.23		mg/kg	0.23	0.046	1
Phenol	ND		mg/kg	0.17	0.026	1
Bis(2-chloroethyl)ether	ND		mg/kg	0.034	0.013	1
2-Chlorophenol	ND		mg/kg	0.17	0.020	1
2-Methylphenol	ND		mg/kg	0.17	0.027	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.21	0.029	1
Acetophenone	0.13	J	mg/kg	0.17	0.021	1
1,4-Dioxane	ND		mg/kg	0.026	0.0078	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.034	0.016	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.25	0.027	1
Hexachloroethane	ND		mg/kg	0.14	0.028	1
Nitrobenzene	ND		mg/kg	0.16	0.025	1
Isophorone	ND		mg/kg	0.16	0.022	1
2-Nitrophenol	ND		mg/kg	0.37	0.065	1
2,4-Dimethylphenol	ND		mg/kg	0.17	0.057	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.19	0.017	1
2,4-Dichlorophenol	ND		mg/kg	0.16	0.028	1
Naphthalene	0.48		mg/kg	0.034	0.021	1
4-Chloroaniline	ND		mg/kg	0.17	0.031	1
Hexachlorobutadiene	ND		mg/kg	0.17	0.025	1
Caprolactam	ND		mg/kg	0.17	0.052	1
p-Chloro-m-cresol	ND		mg/kg	0.17	0.026	1
2-Methylnaphthalene	0.25		mg/kg	0.21	0.021	1
Hexachlorocyclopentadiene	ND		mg/kg	0.49	0.16	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.17	0.018	1
2,4,6-Trichlorophenol	ND		mg/kg	0.10	0.033	1
2,4,5-Trichlorophenol	ND		mg/kg	0.17	0.033	1
Biphenyl	0.53		mg/kg	0.39	0.022	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-11 Date Collected: 10/15/25 10:46

Client ID: FROG-SS-110 (1.5-3.5) Date Received: 10/15/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chloronaphthalene	ND		mg/kg	0.17	0.017	1
2-Nitroaniline	ND		mg/kg	0.17	0.033	1
Dimethyl phthalate	ND		mg/kg	0.17	0.036	1
2,6-Dinitrotoluene	ND		mg/kg	0.17	0.030	1
Acenaphthylene	ND		mg/kg	0.14	0.026	1
3-Nitroaniline	ND		mg/kg	0.17	0.032	1
Acenaphthene	0.021	J	mg/kg	0.14	0.018	1
2,4-Dinitrophenol	ND		mg/kg	0.83	0.080	1
4-Nitrophenol	ND		mg/kg	0.24	0.070	1
2,4-Dinitrotoluene	ND		mg/kg	0.17	0.034	1
Dibenzofuran	0.042	J	mg/kg	0.17	0.016	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.17	0.035	1
Diethyl phthalate	ND		mg/kg	0.17	0.016	1
Fluorene	0.026	J	mg/kg	0.17	0.017	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.17	0.018	1
4-Nitroaniline	ND		mg/kg	0.17	0.071	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.45	0.083	1
NDPA/DPA	ND		mg/kg	0.14	0.020	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.17	0.026	1
Hexachlorobenzene	ND		mg/kg	0.10	0.019	1
Pentachlorophenol	ND		mg/kg	0.14	0.038	1
Atrazine	ND		mg/kg	0.14	0.060	1
Phenanthrene	0.27		mg/kg	0.10	0.021	1
Anthracene	ND		mg/kg	0.10	0.034	1
Carbazole	0.021	J	mg/kg	0.17	0.017	1
Di-n-butylphthalate	0.061	J	mg/kg	0.17	0.033	1
Fluoranthene	0.052	J	mg/kg	0.10	0.020	1
Pyrene	0.046	J	mg/kg	0.10	0.017	1
Butyl benzyl phthalate	ND		mg/kg	0.17	0.043	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.17	0.046	1
Benzo(a)anthracene	ND		mg/kg	0.10	0.019	1
Chrysene	0.035	J	mg/kg	0.10	0.018	1
Bis(2-ethylhexyl)phthalate	0.074	J	mg/kg	0.17	0.060	1
Di-n-octylphthalate	ND		mg/kg	0.17	0.058	1
Benzo(b)fluoranthene	ND		mg/kg	0.10	0.029	1
Benzo(k)fluoranthene	ND		mg/kg	0.10	0.028	1
Benzo(a)pyrene	ND		mg/kg	0.14	0.042	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-11 Date Collected: 10/15/25 10:46

Client ID: FROG-SS-110 (1.5-3.5) Date Received: 10/15/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.14	0.024	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.10	0.020	1
Benzo(ghi)perylene	ND		mg/kg	0.14	0.020	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	68		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	86		30-120
2,4,6-Tribromophenol	88		10-136
4-Terphenyl-d14	84		18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-12
Client ID: FROG-SS-110 (5-7)
Sample Location: CARLISLE, PA
Date Collected: 10/15/25 10:52
Date Received: 10/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/21/25 07:56
Analyst: IMK
Percent Solids: 95%
Extraction Method: EPA 3546
Extraction Date: 10/19/25 02:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.23	0.046	1
Phenol	0.033	J	mg/kg	0.17	0.026	1
Bis(2-chloroethyl)ether	ND		mg/kg	0.034	0.013	1
2-Chlorophenol	ND		mg/kg	0.17	0.020	1
2-Methylphenol	ND		mg/kg	0.17	0.026	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.20	0.029	1
Acetophenone	0.18		mg/kg	0.17	0.021	1
1,4-Dioxane	ND		mg/kg	0.026	0.0078	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.034	0.016	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.25	0.027	1
Hexachloroethane	ND		mg/kg	0.14	0.028	1
Nitrobenzene	ND		mg/kg	0.15	0.025	1
Isophorone	ND		mg/kg	0.15	0.022	1
2-Nitrophenol	ND		mg/kg	0.37	0.064	1
2,4-Dimethylphenol	ND		mg/kg	0.17	0.056	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.18	0.017	1
2,4-Dichlorophenol	ND		mg/kg	0.15	0.028	1
Naphthalene	0.51		mg/kg	0.034	0.021	1
4-Chloroaniline	ND		mg/kg	0.17	0.031	1
Hexachlorobutadiene	ND		mg/kg	0.17	0.025	1
Caprolactam	ND		mg/kg	0.17	0.052	1
p-Chloro-m-cresol	ND		mg/kg	0.17	0.026	1
2-Methylnaphthalene	0.22		mg/kg	0.20	0.021	1
Hexachlorocyclopentadiene	ND		mg/kg	0.49	0.16	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.17	0.018	1
2,4,6-Trichlorophenol	ND		mg/kg	0.10	0.032	1
2,4,5-Trichlorophenol	ND		mg/kg	0.17	0.033	1
Biphenyl	0.38	J	mg/kg	0.39	0.022	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-12 Date Collected: 10/15/25 10:52

Client ID: FROG-SS-110 (5-7) Date Received: 10/15/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chloronaphthalene	ND		mg/kg	0.17	0.017	1
2-Nitroaniline	ND		mg/kg	0.17	0.033	1
Dimethyl phthalate	ND		mg/kg	0.17	0.036	1
2,6-Dinitrotoluene	ND		mg/kg	0.17	0.029	1
Acenaphthylene	ND		mg/kg	0.14	0.026	1
3-Nitroaniline	ND		mg/kg	0.17	0.032	1
Acenaphthene	ND		mg/kg	0.14	0.018	1
2,4-Dinitrophenol	ND		mg/kg	0.82	0.080	1
4-Nitrophenol	ND		mg/kg	0.24	0.070	1
2,4-Dinitrotoluene	ND		mg/kg	0.17	0.034	1
Dibenzofuran	0.035	J	mg/kg	0.17	0.016	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.17	0.035	1
Diethyl phthalate	ND		mg/kg	0.17	0.016	1
Fluorene	0.020	J	mg/kg	0.17	0.017	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.17	0.018	1
4-Nitroaniline	ND		mg/kg	0.17	0.071	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.44	0.082	1
NDPA/DPA	ND		mg/kg	0.14	0.019	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.17	0.026	1
Hexachlorobenzene	ND		mg/kg	0.10	0.019	1
Pentachlorophenol	ND		mg/kg	0.14	0.038	1
Atrazine	ND		mg/kg	0.14	0.060	1
Phenanthrene	0.22		mg/kg	0.10	0.021	1
Anthracene	ND		mg/kg	0.10	0.033	1
Carbazole	0.021	J	mg/kg	0.17	0.017	1
Di-n-butylphthalate	0.034	J	mg/kg	0.17	0.032	1
Fluoranthene	0.056	J	mg/kg	0.10	0.020	1
Pyrene	0.049	J	mg/kg	0.10	0.017	1
Butyl benzyl phthalate	ND		mg/kg	0.17	0.043	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.17	0.046	1
Benzo(a)anthracene	0.025	J	mg/kg	0.10	0.019	1
Chrysene	0.040	J	mg/kg	0.10	0.018	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.17	0.059	1
Di-n-octylphthalate	ND		mg/kg	0.17	0.058	1
Benzo(b)fluoranthene	ND		mg/kg	0.10	0.029	1
Benzo(k)fluoranthene	ND		mg/kg	0.10	0.027	1
Benzo(a)pyrene	ND		mg/kg	0.14	0.042	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-12 Date Collected: 10/15/25 10:52

Client ID: FROG-SS-110 (5-7) Date Received: 10/15/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.14	0.024	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.10	0.020	1
Benzo(ghi)perylene	ND		mg/kg	0.14	0.020	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	76		25-120
Phenol-d6	75		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	93		30-120
2,4,6-Tribromophenol	92		10-136
4-Terphenyl-d14	92		18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-13
Client ID: FROG-SS-DUP-101
Sample Location: CARLISLE, PA
Date Collected: 10/15/25 00:00
Date Received: 10/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/21/25 09:14
Analyst: IMK
Percent Solids: 81%
Extraction Method: EPA 3546
Extraction Date: 10/19/25 02:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.27	0.055	1
Phenol	ND		mg/kg	0.20	0.031	1
Bis(2-chloroethyl)ether	ND		mg/kg	0.041	0.015	1
2-Chlorophenol	ND		mg/kg	0.20	0.024	1
2-Methylphenol	ND		mg/kg	0.20	0.032	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.25	0.035	1
Acetophenone	ND		mg/kg	0.20	0.025	1
1,4-Dioxane	ND		mg/kg	0.031	0.0094	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.041	0.020	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.30	0.032	1
Hexachloroethane	ND		mg/kg	0.16	0.033	1
Nitrobenzene	ND		mg/kg	0.18	0.030	1
Isophorone	ND		mg/kg	0.18	0.027	1
2-Nitrophenol	ND		mg/kg	0.44	0.077	1
2,4-Dimethylphenol	ND		mg/kg	0.20	0.068	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.22	0.020	1
2,4-Dichlorophenol	ND		mg/kg	0.18	0.033	1
Naphthalene	ND		mg/kg	0.041	0.025	1
4-Chloroaniline	ND		mg/kg	0.20	0.037	1
Hexachlorobutadiene	ND		mg/kg	0.20	0.030	1
Caprolactam	ND		mg/kg	0.20	0.062	1
p-Chloro-m-cresol	ND		mg/kg	0.20	0.031	1
2-Methylnaphthalene	ND		mg/kg	0.25	0.025	1
Hexachlorocyclopentadiene	ND		mg/kg	0.59	0.19	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.20	0.021	1
2,4,6-Trichlorophenol	ND		mg/kg	0.12	0.039	1
2,4,5-Trichlorophenol	ND		mg/kg	0.20	0.039	1
Biphenyl	ND		mg/kg	0.47	0.027	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-13 Date Collected: 10/15/25 00:00

Client ID: FROG-SS-DUP-101 Date Received: 10/15/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chloronaphthalene	ND		mg/kg	0.20	0.020	1
2-Nitroaniline	ND		mg/kg	0.20	0.040	1
Dimethyl phthalate	ND		mg/kg	0.20	0.043	1
2,6-Dinitrotoluene	ND		mg/kg	0.20	0.035	1
Acenaphthylene	ND		mg/kg	0.16	0.032	1
3-Nitroaniline	ND		mg/kg	0.20	0.039	1
Acenaphthene	ND		mg/kg	0.16	0.021	1
2,4-Dinitrophenol	ND		mg/kg	0.98	0.096	1
4-Nitrophenol	ND		mg/kg	0.29	0.084	1
2,4-Dinitrotoluene	ND		mg/kg	0.20	0.041	1
Dibenzofuran	ND		mg/kg	0.20	0.019	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.20	0.041	1
Diethyl phthalate	ND		mg/kg	0.20	0.019	1
Fluorene	ND		mg/kg	0.20	0.020	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.20	0.022	1
4-Nitroaniline	ND		mg/kg	0.20	0.085	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.53	0.098	1
NDPA/DPA	ND		mg/kg	0.16	0.023	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.20	0.031	1
Hexachlorobenzene	ND		mg/kg	0.12	0.023	1
Pentachlorophenol	ND		mg/kg	0.16	0.045	1
Atrazine	ND		mg/kg	0.16	0.072	1
Phenanthrene	ND		mg/kg	0.12	0.025	1
Anthracene	ND		mg/kg	0.12	0.040	1
Carbazole	ND		mg/kg	0.20	0.020	1
Di-n-butylphthalate	0.041	J	mg/kg	0.20	0.039	1
Fluoranthene	ND		mg/kg	0.12	0.024	1
Pyrene	ND		mg/kg	0.12	0.020	1
Butyl benzyl phthalate	ND		mg/kg	0.20	0.052	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.20	0.055	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.023	1
Chrysene	ND		mg/kg	0.12	0.021	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.20	0.071	1
Di-n-octylphthalate	ND		mg/kg	0.20	0.070	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.034	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.033	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.050	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-13 Date Collected: 10/15/25 00:00

Client ID: FROG-SS-DUP-101 Date Received: 10/15/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.029	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.024	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.024	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	89		25-120
Phenol-d6	87		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	105		30-120
2,4,6-Tribromophenol	106		10-136
4-Terphenyl-d14	101		18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-14
Client ID: FROG-SS-FB-101
Sample Location: CARLISLE, PA
Date Collected: 10/15/25 15:30
Date Received: 10/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 10/18/25 00:29
Analyst: SMZ
Extraction Method: EPA 3510C
Extraction Date: 10/17/25 12:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		ug/l	5.0	1.1	1
Phenol	ND		ug/l	5.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.65	1
2-Methylphenol	ND		ug/l	5.0	2.3	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.40	1
Acetophenone	ND		ug/l	5.0	0.92	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.4	1
Nitrobenzene	ND		ug/l	1.4	0.20	1
Isophorone	ND		ug/l	5.0	0.86	1
2-Nitrophenol	ND		ug/l	5.0	2.0	1
2,4-Dimethylphenol	ND		ug/l	5.0	2.0	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.84	1
2,4-Dichlorophenol	ND		ug/l	5.0	1.7	1
Naphthalene	ND		ug/l	2.0	0.54	1
4-Chloroaniline	ND		ug/l	3.7	0.47	1
Hexachlorobutadiene	ND		ug/l	2.0	0.36	1
Caprolactam	ND		ug/l	10	1.2	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.61	1
2-Methylnaphthalene	ND		ug/l	2.0	0.37	1
Hexachlorocyclopentadiene	ND		ug/l	20	1.2	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	1.7	0.24	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	2.1	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	2.1	1
Biphenyl	ND		ug/l	2.0	0.20	1
2-Chloronaphthalene	ND		ug/l	2.0	0.35	1
2-Nitroaniline	ND		ug/l	5.0	1.0	1
Dimethyl phthalate	ND		ug/l	5.0	0.92	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.84	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-14 Date Collected: 10/15/25 15:30

Client ID: FROG-SS-FB-101 Date Received: 10/15/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthylene	ND		ug/l	2.0	0.32	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
Acenaphthene	ND		ug/l	2.0	0.40	1
2,4-Dinitrophenol	ND		ug/l	20	5.4	1
4-Nitrophenol	ND		ug/l	10	1.4	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.54	1
Dibenzofuran	ND		ug/l	2.0	0.40	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	2.2	1
Diethyl phthalate	ND		ug/l	5.0	0.76	1
Fluorene	ND		ug/l	2.0	0.44	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.39	1
4-Nitroaniline	ND		ug/l	5.0	1.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.3	1
NDPA/DPA	ND		ug/l	2.0	0.92	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.24	1
Atrazine	ND		ug/l	3.0	1.0	1
Phenanthrene	ND		ug/l	2.0	0.42	1
Anthracene	ND		ug/l	2.0	0.47	1
Carbazole	ND		ug/l	2.0	0.31	1
Di-n-butylphthalate	ND		ug/l	5.0	0.96	1
Fluoranthene	ND		ug/l	2.0	0.41	1
Pyrene	ND		ug/l	2.0	0.41	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.6	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.8	1
Chrysene	ND		ug/l	1.5	0.22	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	1.4	1
Di-n-octylphthalate	ND		ug/l	5.0	2.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	51		21-120
Phenol-d6	35		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	52		15-120
2,4,6-Tribromophenol	78		10-120
4-Terphenyl-d14	89		41-149

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-15
Client ID: FROG-SS-118 (0-2)
Sample Location: CARLISLE, PA

Date Collected: 10/16/25 14:20
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/21/25 05:04
Analyst: IMK
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 10/19/25 08:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.26	0.054	1
Phenol	ND		mg/kg	0.20	0.030	1
Bis(2-chloroethyl)ether	ND		mg/kg	0.040	0.015	1
2-Chlorophenol	ND		mg/kg	0.20	0.024	1
2-Methylphenol	ND		mg/kg	0.20	0.031	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.24	0.034	1
Acetophenone	ND		mg/kg	0.20	0.025	1
1,4-Dioxane	ND		mg/kg	0.030	0.0091	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.040	0.019	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.29	0.031	1
Hexachloroethane	ND		mg/kg	0.16	0.032	1
Nitrobenzene	ND		mg/kg	0.18	0.030	1
Isophorone	ND		mg/kg	0.18	0.026	1
2-Nitrophenol	ND		mg/kg	0.43	0.075	1
2,4-Dimethylphenol	ND		mg/kg	0.20	0.066	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.22	0.020	1
2,4-Dichlorophenol	ND		mg/kg	0.18	0.032	1
Naphthalene	ND		mg/kg	0.040	0.024	1
4-Chloroaniline	ND		mg/kg	0.20	0.036	1
Hexachlorobutadiene	ND		mg/kg	0.20	0.029	1
Caprolactam	ND		mg/kg	0.20	0.061	1
p-Chloro-m-cresol	ND		mg/kg	0.20	0.030	1
2-Methylnaphthalene	ND		mg/kg	0.24	0.024	1
Hexachlorocyclopentadiene	ND		mg/kg	0.57	0.18	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.20	0.021	1
2,4,6-Trichlorophenol	ND		mg/kg	0.12	0.038	1
2,4,5-Trichlorophenol	ND		mg/kg	0.20	0.038	1
Biphenyl	ND		mg/kg	0.46	0.026	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-15 Date Collected: 10/16/25 14:20

Client ID: FROG-SS-118 (0-2) Date Received: 10/16/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chloronaphthalene	ND		mg/kg	0.20	0.020	1
2-Nitroaniline	ND		mg/kg	0.20	0.038	1
Dimethyl phthalate	ND		mg/kg	0.20	0.042	1
2,6-Dinitrotoluene	ND		mg/kg	0.20	0.034	1
Acenaphthylene	ND		mg/kg	0.16	0.031	1
3-Nitroaniline	ND		mg/kg	0.20	0.038	1
Acenaphthene	ND		mg/kg	0.16	0.021	1
2,4-Dinitrophenol	ND		mg/kg	0.96	0.093	1
4-Nitrophenol	ND		mg/kg	0.28	0.081	1
2,4-Dinitrotoluene	ND		mg/kg	0.20	0.040	1
Dibenzofuran	ND		mg/kg	0.20	0.019	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.20	0.040	1
Diethyl phthalate	ND		mg/kg	0.20	0.018	1
Fluorene	ND		mg/kg	0.20	0.019	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.20	0.021	1
4-Nitroaniline	ND		mg/kg	0.20	0.083	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.52	0.096	1
NDPA/DPA	ND		mg/kg	0.16	0.023	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.20	0.030	1
Hexachlorobenzene	ND		mg/kg	0.12	0.022	1
Pentachlorophenol	ND		mg/kg	0.16	0.044	1
Atrazine	ND		mg/kg	0.16	0.070	1
Phenanthrene	0.025	J	mg/kg	0.12	0.024	1
Anthracene	ND		mg/kg	0.12	0.039	1
Carbazole	ND		mg/kg	0.20	0.019	1
Di-n-butylphthalate	ND		mg/kg	0.20	0.038	1
Fluoranthene	0.026	J	mg/kg	0.12	0.023	1
Pyrene	0.023	J	mg/kg	0.12	0.020	1
Butyl benzyl phthalate	ND		mg/kg	0.20	0.050	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.20	0.053	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.022	1
Chrysene	ND		mg/kg	0.12	0.021	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.20	0.069	1
Di-n-octylphthalate	ND		mg/kg	0.20	0.068	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.034	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.032	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.049	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-15 Date Collected: 10/16/25 14:20

Client ID: FROG-SS-118 (0-2) Date Received: 10/16/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.028	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.023	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.023	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	49		25-120
Phenol-d6	57		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	55		30-120
2,4,6-Tribromophenol	46		10-136
4-Terphenyl-d14	51		18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-16
Client ID: FROG-SS-118 (10-12)
Sample Location: CARLISLE, PA

Date Collected: 10/16/25 14:23
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/21/25 02:58
Analyst: IMK
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 10/19/25 08:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.27	0.055	1
Phenol	ND		mg/kg	0.20	0.031	1
Bis(2-chloroethyl)ether	ND		mg/kg	0.041	0.015	1
2-Chlorophenol	ND		mg/kg	0.20	0.024	1
2-Methylphenol	ND		mg/kg	0.20	0.032	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.25	0.035	1
Acetophenone	ND		mg/kg	0.20	0.025	1
1,4-Dioxane	ND		mg/kg	0.031	0.0093	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.041	0.020	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.30	0.032	1
Hexachloroethane	ND		mg/kg	0.16	0.033	1
Nitrobenzene	ND		mg/kg	0.18	0.030	1
Isophorone	ND		mg/kg	0.18	0.027	1
2-Nitrophenol	ND		mg/kg	0.44	0.077	1
2,4-Dimethylphenol	ND		mg/kg	0.20	0.068	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.22	0.020	1
2,4-Dichlorophenol	ND		mg/kg	0.18	0.033	1
Naphthalene	ND		mg/kg	0.041	0.025	1
4-Chloroaniline	ND		mg/kg	0.20	0.037	1
Hexachlorobutadiene	ND		mg/kg	0.20	0.030	1
Caprolactam	ND		mg/kg	0.20	0.062	1
p-Chloro-m-cresol	ND		mg/kg	0.20	0.030	1
2-Methylnaphthalene	ND		mg/kg	0.25	0.025	1
Hexachlorocyclopentadiene	ND		mg/kg	0.59	0.18	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.20	0.021	1
2,4,6-Trichlorophenol	ND		mg/kg	0.12	0.039	1
2,4,5-Trichlorophenol	ND		mg/kg	0.20	0.039	1
Biphenyl	ND		mg/kg	0.47	0.027	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-16 Date Collected: 10/16/25 14:23

Client ID: FROG-SS-118 (10-12) Date Received: 10/16/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chloronaphthalene	ND		mg/kg	0.20	0.020	1
2-Nitroaniline	ND		mg/kg	0.20	0.040	1
Dimethyl phthalate	ND		mg/kg	0.20	0.043	1
2,6-Dinitrotoluene	ND		mg/kg	0.20	0.035	1
Acenaphthylene	ND		mg/kg	0.16	0.032	1
3-Nitroaniline	ND		mg/kg	0.20	0.039	1
Acenaphthene	ND		mg/kg	0.16	0.021	1
2,4-Dinitrophenol	ND		mg/kg	0.98	0.096	1
4-Nitrophenol	ND		mg/kg	0.29	0.084	1
2,4-Dinitrotoluene	ND		mg/kg	0.20	0.041	1
Dibenzofuran	ND		mg/kg	0.20	0.019	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.20	0.041	1
Diethyl phthalate	ND		mg/kg	0.20	0.019	1
Fluorene	ND		mg/kg	0.20	0.020	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.20	0.022	1
4-Nitroaniline	ND		mg/kg	0.20	0.085	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.53	0.098	1
NDPA/DPA	ND		mg/kg	0.16	0.023	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.20	0.031	1
Hexachlorobenzene	ND		mg/kg	0.12	0.023	1
Pentachlorophenol	ND		mg/kg	0.16	0.045	1
Atrazine	ND		mg/kg	0.16	0.072	1
Phenanthrene	ND		mg/kg	0.12	0.025	1
Anthracene	ND		mg/kg	0.12	0.040	1
Carbazole	ND		mg/kg	0.20	0.020	1
Di-n-butylphthalate	ND		mg/kg	0.20	0.039	1
Fluoranthene	ND		mg/kg	0.12	0.024	1
Pyrene	ND		mg/kg	0.12	0.020	1
Butyl benzyl phthalate	ND		mg/kg	0.20	0.052	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.20	0.054	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.023	1
Chrysene	ND		mg/kg	0.12	0.021	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.20	0.071	1
Di-n-octylphthalate	ND		mg/kg	0.20	0.070	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.034	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.033	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.050	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-16 Date Collected: 10/16/25 14:23

Client ID: FROG-SS-118 (10-12) Date Received: 10/16/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.028	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.024	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.024	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	54		25-120
Phenol-d6	60		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	65		30-120
2,4,6-Tribromophenol	62		10-136
4-Terphenyl-d14	64		18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-17
Client ID: FROG-SS-119 (0.5-1)
Sample Location: CARLISLE, PA
Date Collected: 10/16/25 13:45
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/21/25 09:36
Analyst: IMK
Percent Solids: 89%
Extraction Method: EPA 3546
Extraction Date: 10/19/25 08:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.24	0.050	1
Phenol	ND		mg/kg	0.18	0.028	1
Bis(2-chloroethyl)ether	ND		mg/kg	0.037	0.014	1
2-Chlorophenol	ND		mg/kg	0.18	0.022	1
2-Methylphenol	ND		mg/kg	0.18	0.028	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.22	0.031	1
Acetophenone	ND		mg/kg	0.18	0.023	1
1,4-Dioxane	ND		mg/kg	0.028	0.0084	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.037	0.018	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.26	0.029	1
Hexachloroethane	ND		mg/kg	0.15	0.030	1
Nitrobenzene	ND		mg/kg	0.16	0.027	1
Isophorone	ND		mg/kg	0.16	0.024	1
2-Nitrophenol	ND		mg/kg	0.40	0.069	1
2,4-Dimethylphenol	ND		mg/kg	0.18	0.061	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.20	0.018	1
2,4-Dichlorophenol	ND		mg/kg	0.16	0.030	1
Naphthalene	ND		mg/kg	0.037	0.022	1
4-Chloroaniline	ND		mg/kg	0.18	0.033	1
Hexachlorobutadiene	ND		mg/kg	0.18	0.027	1
Caprolactam	ND		mg/kg	0.18	0.056	1
p-Chloro-m-cresol	ND		mg/kg	0.18	0.027	1
2-Methylnaphthalene	ND		mg/kg	0.22	0.022	1
Hexachlorocyclopentadiene	ND		mg/kg	0.52	0.17	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.18	0.019	1
2,4,6-Trichlorophenol	ND		mg/kg	0.11	0.035	1
2,4,5-Trichlorophenol	ND		mg/kg	0.18	0.035	1
Biphenyl	ND		mg/kg	0.42	0.024	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-17 Date Collected: 10/16/25 13:45

Client ID: FROG-SS-119 (0.5-1) Date Received: 10/16/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chloronaphthalene	ND		mg/kg	0.18	0.018	1
2-Nitroaniline	ND		mg/kg	0.18	0.035	1
Dimethyl phthalate	ND		mg/kg	0.18	0.038	1
2,6-Dinitrotoluene	ND		mg/kg	0.18	0.032	1
Acenaphthylene	ND		mg/kg	0.15	0.028	1
3-Nitroaniline	ND		mg/kg	0.18	0.035	1
Acenaphthene	ND		mg/kg	0.15	0.019	1
2,4-Dinitrophenol	ND		mg/kg	0.88	0.086	1
4-Nitrophenol	ND		mg/kg	0.26	0.075	1
2,4-Dinitrotoluene	ND		mg/kg	0.18	0.037	1
Dibenzofuran	ND		mg/kg	0.18	0.017	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.18	0.037	1
Diethyl phthalate	ND		mg/kg	0.18	0.017	1
Fluorene	ND		mg/kg	0.18	0.018	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.18	0.020	1
4-Nitroaniline	ND		mg/kg	0.18	0.076	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.48	0.088	1
NDPA/DPA	ND		mg/kg	0.15	0.021	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.18	0.028	1
Hexachlorobenzene	ND		mg/kg	0.11	0.020	1
Pentachlorophenol	ND		mg/kg	0.15	0.040	1
Atrazine	ND		mg/kg	0.15	0.064	1
Phenanthrene	0.031	J	mg/kg	0.11	0.022	1
Anthracene	ND		mg/kg	0.11	0.036	1
Carbazole	ND		mg/kg	0.18	0.018	1
Di-n-butylphthalate	ND		mg/kg	0.18	0.035	1
Fluoranthene	0.091	J	mg/kg	0.11	0.021	1
Pyrene	0.096	J	mg/kg	0.11	0.018	1
Butyl benzyl phthalate	ND		mg/kg	0.18	0.046	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.18	0.049	1
Benzo(a)anthracene	0.11		mg/kg	0.11	0.021	1
Chrysene	0.14		mg/kg	0.11	0.019	1
Bis(2-ethylhexyl)phthalate	0.077	J	mg/kg	0.18	0.064	1
Di-n-octylphthalate	ND		mg/kg	0.18	0.062	1
Benzo(b)fluoranthene	0.28		mg/kg	0.11	0.031	1
Benzo(k)fluoranthene	0.074	J	mg/kg	0.11	0.029	1
Benzo(a)pyrene	0.18		mg/kg	0.15	0.045	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-17 Date Collected: 10/16/25 13:45

Client ID: FROG-SS-119 (0.5-1) Date Received: 10/16/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Indeno(1,2,3-cd)pyrene	0.16		mg/kg	0.15	0.026	1
Dibenzo(a,h)anthracene	0.035	J	mg/kg	0.11	0.021	1
Benzo(ghi)perylene	0.18		mg/kg	0.15	0.022	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**4**	Q	25-120
Phenol-d6	31		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	**0**	Q	10-136
4-Terphenyl-d14	58		18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-17 RE
Client ID: FROG-SS-119 (0.5-1)
Sample Location: CARLISLE, PA

Date Collected: 10/16/25 13:45
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/26/25 16:53
Analyst: IMK
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 10/26/25 07:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.24	0.050	1
Phenol	ND		mg/kg	0.18	0.028	1
Bis(2-chloroethyl)ether	ND		mg/kg	0.037	0.014	1
2-Chlorophenol	ND		mg/kg	0.18	0.022	1
2-Methylphenol	ND		mg/kg	0.18	0.029	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.22	0.032	1
Acetophenone	ND		mg/kg	0.18	0.023	1
1,4-Dioxane	ND		mg/kg	0.028	0.0085	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.037	0.018	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.27	0.029	1
Hexachloroethane	ND		mg/kg	0.15	0.030	1
Nitrobenzene	ND		mg/kg	0.17	0.027	1
Isophorone	ND		mg/kg	0.17	0.024	1
2-Nitrophenol	ND		mg/kg	0.40	0.070	1
2,4-Dimethylphenol	ND		mg/kg	0.18	0.061	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.20	0.018	1
2,4-Dichlorophenol	ND		mg/kg	0.17	0.030	1
Naphthalene	ND		mg/kg	0.037	0.023	1
4-Chloroaniline	ND		mg/kg	0.18	0.034	1
Hexachlorobutadiene	ND		mg/kg	0.18	0.027	1
Caprolactam	ND		mg/kg	0.18	0.056	1
p-Chloro-m-cresol	ND		mg/kg	0.18	0.028	1
2-Methylnaphthalene	ND		mg/kg	0.22	0.022	1
Hexachlorocyclopentadiene	ND		mg/kg	0.53	0.17	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.18	0.019	1
2,4,6-Trichlorophenol	ND		mg/kg	0.11	0.035	1
2,4,5-Trichlorophenol	ND		mg/kg	0.18	0.036	1
Biphenyl	ND		mg/kg	0.42	0.024	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-17 RE Date Collected: 10/16/25 13:45

Client ID: FROG-SS-119 (0.5-1) Date Received: 10/16/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chloronaphthalene	ND		mg/kg	0.18	0.018	1
2-Nitroaniline	ND		mg/kg	0.18	0.036	1
Dimethyl phthalate	ND		mg/kg	0.18	0.039	1
2,6-Dinitrotoluene	ND		mg/kg	0.18	0.032	1
Acenaphthylene	ND		mg/kg	0.15	0.029	1
3-Nitroaniline	ND		mg/kg	0.18	0.035	1
Acenaphthene	ND		mg/kg	0.15	0.019	1
2,4-Dinitrophenol	ND		mg/kg	0.89	0.086	1
4-Nitrophenol	ND		mg/kg	0.26	0.076	1
2,4-Dinitrotoluene	ND		mg/kg	0.18	0.037	1
Dibenzofuran	ND		mg/kg	0.18	0.018	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.18	0.037	1
Diethyl phthalate	ND		mg/kg	0.18	0.017	1
Fluorene	ND		mg/kg	0.18	0.018	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.18	0.020	1
4-Nitroaniline	ND		mg/kg	0.18	0.077	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.48	0.089	1
NDPA/DPA	ND		mg/kg	0.15	0.021	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.18	0.028	1
Hexachlorobenzene	ND		mg/kg	0.11	0.021	1
Pentachlorophenol	ND		mg/kg	0.15	0.041	1
Atrazine	ND		mg/kg	0.15	0.065	1
Phenanthrene	0.033	J	mg/kg	0.11	0.022	1
Anthracene	ND		mg/kg	0.11	0.036	1
Carbazole	ND		mg/kg	0.18	0.018	1
Di-n-butylphthalate	ND		mg/kg	0.18	0.035	1
Fluoranthene	0.10	J	mg/kg	0.11	0.021	1
Pyrene	0.12		mg/kg	0.11	0.018	1
Butyl benzyl phthalate	ND		mg/kg	0.18	0.047	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.18	0.049	1
Benzo(a)anthracene	0.12		mg/kg	0.11	0.021	1
Chrysene	0.17		mg/kg	0.11	0.019	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.18	0.064	1
Di-n-octylphthalate	ND		mg/kg	0.18	0.063	1
Benzo(b)fluoranthene	0.34		mg/kg	0.11	0.031	1
Benzo(k)fluoranthene	0.095	J	mg/kg	0.11	0.030	1
Benzo(a)pyrene	0.21		mg/kg	0.15	0.045	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-17 RE Date Collected: 10/16/25 13:45

Client ID: FROG-SS-119 (0.5-1) Date Received: 10/16/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Indeno(1,2,3-cd)pyrene	0.18		mg/kg	0.15	0.026	1
Dibenzo(a,h)anthracene	0.045	J	mg/kg	0.11	0.021	1
Benzo(ghi)perylene	0.21		mg/kg	0.15	0.022	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**11**	Q	25-120
Phenol-d6	37		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	55		30-120
2,4,6-Tribromophenol	**0**	Q	10-136
4-Terphenyl-d14	57		18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-18
Client ID: FROG-SS-111 (0-2)
Sample Location: CARLISLE, PA
Date Collected: 10/16/25 10:28
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/21/25 06:49
Analyst: IMK
Percent Solids: 88%
Extraction Method: EPA 3546
Extraction Date: 10/19/25 08:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.24	0.050	1
Phenol	ND		mg/kg	0.18	0.028	1
Bis(2-chloroethyl)ether	ND		mg/kg	0.037	0.014	1
2-Chlorophenol	ND		mg/kg	0.18	0.022	1
2-Methylphenol	ND		mg/kg	0.18	0.028	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.22	0.031	1
Acetophenone	ND		mg/kg	0.18	0.023	1
1,4-Dioxane	ND		mg/kg	0.028	0.0084	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.037	0.018	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.26	0.029	1
Hexachloroethane	ND		mg/kg	0.15	0.030	1
Nitrobenzene	ND		mg/kg	0.16	0.027	1
Isophorone	ND		mg/kg	0.16	0.024	1
2-Nitrophenol	ND		mg/kg	0.40	0.069	1
2,4-Dimethylphenol	ND		mg/kg	0.18	0.061	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.20	0.018	1
2,4-Dichlorophenol	ND		mg/kg	0.16	0.030	1
Naphthalene	ND		mg/kg	0.037	0.022	1
4-Chloroaniline	ND		mg/kg	0.18	0.034	1
Hexachlorobutadiene	ND		mg/kg	0.18	0.027	1
Caprolactam	ND		mg/kg	0.18	0.056	1
p-Chloro-m-cresol	ND		mg/kg	0.18	0.027	1
2-Methylnaphthalene	ND		mg/kg	0.22	0.022	1
Hexachlorocyclopentadiene	ND		mg/kg	0.53	0.17	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.18	0.019	1
2,4,6-Trichlorophenol	ND		mg/kg	0.11	0.035	1
2,4,5-Trichlorophenol	ND		mg/kg	0.18	0.035	1
Biphenyl	ND		mg/kg	0.42	0.024	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-18 Date Collected: 10/16/25 10:28

Client ID: FROG-SS-111 (0-2) Date Received: 10/16/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chloronaphthalene	ND		mg/kg	0.18	0.018	1
2-Nitroaniline	ND		mg/kg	0.18	0.036	1
Dimethyl phthalate	ND		mg/kg	0.18	0.039	1
2,6-Dinitrotoluene	ND		mg/kg	0.18	0.032	1
Acenaphthylene	ND		mg/kg	0.15	0.028	1
3-Nitroaniline	ND		mg/kg	0.18	0.035	1
Acenaphthene	ND		mg/kg	0.15	0.019	1
2,4-Dinitrophenol	ND		mg/kg	0.88	0.086	1
4-Nitrophenol	ND		mg/kg	0.26	0.075	1
2,4-Dinitrotoluene	ND		mg/kg	0.18	0.037	1
Dibenzofuran	ND		mg/kg	0.18	0.017	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.18	0.037	1
Diethyl phthalate	ND		mg/kg	0.18	0.017	1
Fluorene	ND		mg/kg	0.18	0.018	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.18	0.020	1
4-Nitroaniline	ND		mg/kg	0.18	0.076	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.48	0.088	1
NDPA/DPA	ND		mg/kg	0.15	0.021	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.18	0.028	1
Hexachlorobenzene	ND		mg/kg	0.11	0.021	1
Pentachlorophenol	ND		mg/kg	0.15	0.040	1
Atrazine	ND		mg/kg	0.15	0.064	1
Phenanthrene	0.024	J	mg/kg	0.11	0.022	1
Anthracene	ND		mg/kg	0.11	0.036	1
Carbazole	ND		mg/kg	0.18	0.018	1
Di-n-butylphthalate	ND		mg/kg	0.18	0.035	1
Fluoranthene	0.030	J	mg/kg	0.11	0.021	1
Pyrene	0.028	J	mg/kg	0.11	0.018	1
Butyl benzyl phthalate	ND		mg/kg	0.18	0.046	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.18	0.049	1
Benzo(a)anthracene	ND		mg/kg	0.11	0.021	1
Chrysene	0.025	J	mg/kg	0.11	0.019	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.18	0.064	1
Di-n-octylphthalate	ND		mg/kg	0.18	0.063	1
Benzo(b)fluoranthene	ND		mg/kg	0.11	0.031	1
Benzo(k)fluoranthene	ND		mg/kg	0.11	0.029	1
Benzo(a)pyrene	ND		mg/kg	0.15	0.045	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-18 Date Collected: 10/16/25 10:28

Client ID: FROG-SS-111 (0-2) Date Received: 10/16/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.15	0.026	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.11	0.021	1
Benzo(ghi)perylene	ND		mg/kg	0.15	0.022	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		25-120
Phenol-d6	58		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	58		30-120
2,4,6-Tribromophenol	62		10-136
4-Terphenyl-d14	56		18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-19
Client ID: FROG-SS-111 (11-13)
Sample Location: CARLISLE, PA

Date Collected: 10/16/25 10:30
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/21/25 05:46
Analyst: IMK
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 10/19/25 08:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.27	0.055	1
Phenol	ND		mg/kg	0.20	0.031	1
Bis(2-chloroethyl)ether	ND		mg/kg	0.041	0.015	1
2-Chlorophenol	ND		mg/kg	0.20	0.024	1
2-Methylphenol	ND		mg/kg	0.20	0.032	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.25	0.035	1
Acetophenone	ND		mg/kg	0.20	0.025	1
1,4-Dioxane	ND		mg/kg	0.031	0.0094	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.041	0.020	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.30	0.032	1
Hexachloroethane	ND		mg/kg	0.16	0.033	1
Nitrobenzene	ND		mg/kg	0.18	0.030	1
Isophorone	ND		mg/kg	0.18	0.027	1
2-Nitrophenol	ND		mg/kg	0.44	0.077	1
2,4-Dimethylphenol	ND		mg/kg	0.20	0.068	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.22	0.020	1
2,4-Dichlorophenol	ND		mg/kg	0.18	0.033	1
Naphthalene	ND		mg/kg	0.041	0.025	1
4-Chloroaniline	ND		mg/kg	0.20	0.037	1
Hexachlorobutadiene	ND		mg/kg	0.20	0.030	1
Caprolactam	ND		mg/kg	0.20	0.062	1
p-Chloro-m-cresol	ND		mg/kg	0.20	0.030	1
2-Methylnaphthalene	ND		mg/kg	0.25	0.025	1
Hexachlorocyclopentadiene	ND		mg/kg	0.59	0.19	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.20	0.021	1
2,4,6-Trichlorophenol	ND		mg/kg	0.12	0.039	1
2,4,5-Trichlorophenol	ND		mg/kg	0.20	0.039	1
Biphenyl	ND		mg/kg	0.47	0.027	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-19 Date Collected: 10/16/25 10:30

Client ID: FROG-SS-111 (11-13) Date Received: 10/16/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chloronaphthalene	ND		mg/kg	0.20	0.020	1
2-Nitroaniline	ND		mg/kg	0.20	0.040	1
Dimethyl phthalate	ND		mg/kg	0.20	0.043	1
2,6-Dinitrotoluene	ND		mg/kg	0.20	0.035	1
Acenaphthylene	ND		mg/kg	0.16	0.032	1
3-Nitroaniline	ND		mg/kg	0.20	0.039	1
Acenaphthene	ND		mg/kg	0.16	0.021	1
2,4-Dinitrophenol	ND		mg/kg	0.98	0.096	1
4-Nitrophenol	ND		mg/kg	0.29	0.084	1
2,4-Dinitrotoluene	ND		mg/kg	0.20	0.041	1
Dibenzofuran	ND		mg/kg	0.20	0.019	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.20	0.041	1
Diethyl phthalate	ND		mg/kg	0.20	0.019	1
Fluorene	ND		mg/kg	0.20	0.020	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.20	0.022	1
4-Nitroaniline	ND		mg/kg	0.20	0.085	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.53	0.098	1
NDPA/DPA	ND		mg/kg	0.16	0.023	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.20	0.031	1
Hexachlorobenzene	ND		mg/kg	0.12	0.023	1
Pentachlorophenol	ND		mg/kg	0.16	0.045	1
Atrazine	ND		mg/kg	0.16	0.072	1
Phenanthrene	0.025	J	mg/kg	0.12	0.025	1
Anthracene	ND		mg/kg	0.12	0.040	1
Carbazole	ND		mg/kg	0.20	0.020	1
Di-n-butylphthalate	ND		mg/kg	0.20	0.039	1
Fluoranthene	0.048	J	mg/kg	0.12	0.024	1
Pyrene	0.044	J	mg/kg	0.12	0.020	1
Butyl benzyl phthalate	ND		mg/kg	0.20	0.052	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.20	0.055	1
Benzo(a)anthracene	0.030	J	mg/kg	0.12	0.023	1
Chrysene	0.026	J	mg/kg	0.12	0.021	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.20	0.071	1
Di-n-octylphthalate	ND		mg/kg	0.20	0.070	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.034	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.033	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.050	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-19 Date Collected: 10/16/25 10:30

Client ID: FROG-SS-111 (11-13) Date Received: 10/16/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.029	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.024	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.024	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	58		25-120
Phenol-d6	65		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	60		30-120
2,4,6-Tribromophenol	59		10-136
4-Terphenyl-d14	57		18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-20
Client ID: FROG-SS-112 (0-2)
Sample Location: CARLISLE, PA

Date Collected: 10/16/25 11:20
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/21/25 10:39
Analyst: IMK
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 10/19/25 08:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.23	0.048	1
Phenol	ND		mg/kg	0.18	0.027	1
Bis(2-chloroethyl)ether	ND		mg/kg	0.036	0.013	1
2-Chlorophenol	ND		mg/kg	0.18	0.021	1
2-Methylphenol	ND		mg/kg	0.18	0.028	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.21	0.030	1
Acetophenone	ND		mg/kg	0.18	0.022	1
1,4-Dioxane	ND		mg/kg	0.027	0.0081	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.036	0.017	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.26	0.028	1
Hexachloroethane	ND		mg/kg	0.14	0.029	1
Nitrobenzene	ND		mg/kg	0.16	0.026	1
Isophorone	ND		mg/kg	0.16	0.023	1
2-Nitrophenol	ND		mg/kg	0.38	0.067	1
2,4-Dimethylphenol	ND		mg/kg	0.18	0.059	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.19	0.018	1
2,4-Dichlorophenol	ND		mg/kg	0.16	0.029	1
Naphthalene	0.10		mg/kg	0.036	0.022	1
4-Chloroaniline	ND		mg/kg	0.18	0.032	1
Hexachlorobutadiene	ND		mg/kg	0.18	0.026	1
Caprolactam	ND		mg/kg	0.18	0.054	1
p-Chloro-m-cresol	ND		mg/kg	0.18	0.026	1
2-Methylnaphthalene	0.10	J	mg/kg	0.21	0.022	1
Hexachlorocyclopentadiene	ND		mg/kg	0.51	0.16	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.18	0.018	1
2,4,6-Trichlorophenol	ND		mg/kg	0.11	0.034	1
2,4,5-Trichlorophenol	ND		mg/kg	0.18	0.034	1
Biphenyl	0.024	J	mg/kg	0.40	0.023	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-20 Date Collected: 10/16/25 11:20

Client ID: FROG-SS-112 (0-2) Date Received: 10/16/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chloronaphthalene	ND		mg/kg	0.18	0.018	1
2-Nitroaniline	ND		mg/kg	0.18	0.034	1
Dimethyl phthalate	ND		mg/kg	0.18	0.037	1
2,6-Dinitrotoluene	ND		mg/kg	0.18	0.030	1
Acenaphthylene	0.10	J	mg/kg	0.14	0.027	1
3-Nitroaniline	ND		mg/kg	0.18	0.034	1
Acenaphthene	0.16		mg/kg	0.14	0.018	1
2,4-Dinitrophenol	ND		mg/kg	0.85	0.083	1
4-Nitrophenol	ND		mg/kg	0.25	0.073	1
2,4-Dinitrotoluene	ND		mg/kg	0.18	0.036	1
Dibenzofuran	0.11	J	mg/kg	0.18	0.017	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.18	0.036	1
Diethyl phthalate	ND		mg/kg	0.18	0.016	1
Fluorene	0.15	J	mg/kg	0.18	0.017	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.18	0.019	1
4-Nitroaniline	ND		mg/kg	0.18	0.074	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.46	0.085	1
NDPA/DPA	ND		mg/kg	0.14	0.020	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.18	0.027	1
Hexachlorobenzene	ND		mg/kg	0.11	0.020	1
Pentachlorophenol	ND		mg/kg	0.14	0.039	1
Atrazine	ND		mg/kg	0.14	0.062	1
Phenanthrene	2.2		mg/kg	0.11	0.022	1
Anthracene	0.49		mg/kg	0.11	0.035	1
Carbazole	0.35		mg/kg	0.18	0.017	1
Di-n-butylphthalate	ND		mg/kg	0.18	0.034	1
Fluoranthene	3.4		mg/kg	0.11	0.020	1
Pyrene	2.7		mg/kg	0.11	0.018	1
Butyl benzyl phthalate	ND		mg/kg	0.18	0.045	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.18	0.047	1
Benzo(a)anthracene	1.6		mg/kg	0.11	0.020	1
Chrysene	1.7		mg/kg	0.11	0.018	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.18	0.062	1
Di-n-octylphthalate	ND		mg/kg	0.18	0.060	1
Benzo(b)fluoranthene	2.3		mg/kg	0.11	0.030	1
Benzo(k)fluoranthene	0.67		mg/kg	0.11	0.028	1
Benzo(a)pyrene	1.7		mg/kg	0.14	0.043	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-20 Date Collected: 10/16/25 11:20

Client ID: FROG-SS-112 (0-2) Date Received: 10/16/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Indeno(1,2,3-cd)pyrene	1.2		mg/kg	0.14	0.025	1
Dibenzo(a,h)anthracene	0.23		mg/kg	0.11	0.020	1
Benzo(ghi)perylene	1.0		mg/kg	0.14	0.021	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		25-120
Phenol-d6	66		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	65		30-120
2,4,6-Tribromophenol	79		10-136
4-Terphenyl-d14	55		18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-21
Client ID: FROG-SS-112 (7-9)
Sample Location: CARLISLE, PA
Date Collected: 10/16/25 11:22
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/21/25 05:25
Analyst: IMK
Percent Solids: 92%
Extraction Method: EPA 3546
Extraction Date: 10/19/25 08:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.24	0.048	1
Phenol	ND		mg/kg	0.18	0.027	1
Bis(2-chloroethyl)ether	ND		mg/kg	0.036	0.013	1
2-Chlorophenol	ND		mg/kg	0.18	0.021	1
2-Methylphenol	ND		mg/kg	0.18	0.028	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.21	0.030	1
Acetophenone	ND		mg/kg	0.18	0.022	1
1,4-Dioxane	ND		mg/kg	0.027	0.0082	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.036	0.017	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.26	0.028	1
Hexachloroethane	ND		mg/kg	0.14	0.029	1
Nitrobenzene	ND		mg/kg	0.16	0.026	1
Isophorone	ND		mg/kg	0.16	0.023	1
2-Nitrophenol	ND		mg/kg	0.39	0.067	1
2,4-Dimethylphenol	ND		mg/kg	0.18	0.059	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.19	0.018	1
2,4-Dichlorophenol	ND		mg/kg	0.16	0.029	1
Naphthalene	ND		mg/kg	0.036	0.022	1
4-Chloroaniline	ND		mg/kg	0.18	0.032	1
Hexachlorobutadiene	ND		mg/kg	0.18	0.026	1
Caprolactam	ND		mg/kg	0.18	0.054	1
p-Chloro-m-cresol	ND		mg/kg	0.18	0.027	1
2-Methylnaphthalene	0.036	J	mg/kg	0.21	0.022	1
Hexachlorocyclopentadiene	ND		mg/kg	0.51	0.16	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.18	0.019	1
2,4,6-Trichlorophenol	ND		mg/kg	0.11	0.034	1
2,4,5-Trichlorophenol	ND		mg/kg	0.18	0.034	1
Biphenyl	ND		mg/kg	0.41	0.023	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-21 Date Collected: 10/16/25 11:22

Client ID: FROG-SS-112 (7-9) Date Received: 10/16/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chloronaphthalene	ND		mg/kg	0.18	0.018	1
2-Nitroaniline	ND		mg/kg	0.18	0.034	1
Dimethyl phthalate	ND		mg/kg	0.18	0.038	1
2,6-Dinitrotoluene	ND		mg/kg	0.18	0.031	1
Acenaphthylene	ND		mg/kg	0.14	0.028	1
3-Nitroaniline	ND		mg/kg	0.18	0.034	1
Acenaphthene	ND		mg/kg	0.14	0.018	1
2,4-Dinitrophenol	ND		mg/kg	0.86	0.083	1
4-Nitrophenol	ND		mg/kg	0.25	0.073	1
2,4-Dinitrotoluene	ND		mg/kg	0.18	0.036	1
Dibenzofuran	ND		mg/kg	0.18	0.017	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.18	0.036	1
Diethyl phthalate	ND		mg/kg	0.18	0.016	1
Fluorene	ND		mg/kg	0.18	0.017	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.18	0.019	1
4-Nitroaniline	ND		mg/kg	0.18	0.074	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.46	0.086	1
NDPA/DPA	ND		mg/kg	0.14	0.020	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.18	0.027	1
Hexachlorobenzene	ND		mg/kg	0.11	0.020	1
Pentachlorophenol	ND		mg/kg	0.14	0.039	1
Atrazine	ND		mg/kg	0.14	0.062	1
Phenanthrene	ND		mg/kg	0.11	0.022	1
Anthracene	ND		mg/kg	0.11	0.035	1
Carbazole	ND		mg/kg	0.18	0.017	1
Di-n-butylphthalate	ND		mg/kg	0.18	0.034	1
Fluoranthene	ND		mg/kg	0.11	0.020	1
Pyrene	ND		mg/kg	0.11	0.018	1
Butyl benzyl phthalate	ND		mg/kg	0.18	0.045	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.18	0.048	1
Benzo(a)anthracene	ND		mg/kg	0.11	0.020	1
Chrysene	ND		mg/kg	0.11	0.018	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.18	0.062	1
Di-n-octylphthalate	ND		mg/kg	0.18	0.061	1
Benzo(b)fluoranthene	ND		mg/kg	0.11	0.030	1
Benzo(k)fluoranthene	ND		mg/kg	0.11	0.029	1
Benzo(a)pyrene	ND		mg/kg	0.14	0.044	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-21 Date Collected: 10/16/25 11:22

Client ID: FROG-SS-112 (7-9) Date Received: 10/16/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.14	0.025	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.11	0.021	1
Benzo(ghi)perylene	ND		mg/kg	0.14	0.021	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	65		30-120
2,4,6-Tribromophenol	66		10-136
4-Terphenyl-d14	57		18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-22
Client ID: FROG-SS-120 (0-2)
Sample Location: CARLISLE, PA
Date Collected: 10/16/25 08:00
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/21/25 11:00
Analyst: IMK
Percent Solids: 91%
Extraction Method: EPA 3546
Extraction Date: 10/19/25 08:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.24	0.049	1
Phenol	0.037	J	mg/kg	0.18	0.027	1
Bis(2-chloroethyl)ether	ND		mg/kg	0.036	0.013	1
2-Chlorophenol	ND		mg/kg	0.18	0.022	1
2-Methylphenol	ND		mg/kg	0.18	0.028	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.22	0.031	1
Acetophenone	ND		mg/kg	0.18	0.022	1
1,4-Dioxane	ND		mg/kg	0.027	0.0083	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.036	0.017	1
3-Methylphenol/4-Methylphenol	0.029	J	mg/kg	0.26	0.028	1
Hexachloroethane	ND		mg/kg	0.14	0.029	1
Nitrobenzene	ND		mg/kg	0.16	0.027	1
Isophorone	ND		mg/kg	0.16	0.024	1
2-Nitrophenol	ND		mg/kg	0.39	0.068	1
2,4-Dimethylphenol	ND		mg/kg	0.18	0.060	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.20	0.018	1
2,4-Dichlorophenol	ND		mg/kg	0.16	0.029	1
Naphthalene	0.13		mg/kg	0.036	0.022	1
4-Chloroaniline	ND		mg/kg	0.18	0.033	1
Hexachlorobutadiene	ND		mg/kg	0.18	0.027	1
Caprolactam	ND		mg/kg	0.18	0.055	1
p-Chloro-m-cresol	ND		mg/kg	0.18	0.027	1
2-Methylnaphthalene	0.13	J	mg/kg	0.22	0.022	1
Hexachlorocyclopentadiene	ND		mg/kg	0.52	0.16	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.18	0.019	1
2,4,6-Trichlorophenol	ND		mg/kg	0.11	0.034	1
2,4,5-Trichlorophenol	ND		mg/kg	0.18	0.035	1
Biphenyl	0.031	J	mg/kg	0.41	0.024	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-22 Date Collected: 10/16/25 08:00

Client ID: FROG-SS-120 (0-2) Date Received: 10/16/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chloronaphthalene	ND		mg/kg	0.18	0.018	1
2-Nitroaniline	ND		mg/kg	0.18	0.035	1
Dimethyl phthalate	ND		mg/kg	0.18	0.038	1
2,6-Dinitrotoluene	ND		mg/kg	0.18	0.031	1
Acenaphthylene	0.24		mg/kg	0.14	0.028	1
3-Nitroaniline	ND		mg/kg	0.18	0.034	1
Acenaphthene	0.32		mg/kg	0.14	0.019	1
2,4-Dinitrophenol	ND		mg/kg	0.87	0.085	1
4-Nitrophenol	ND		mg/kg	0.25	0.074	1
2,4-Dinitrotoluene	ND		mg/kg	0.18	0.036	1
Dibenzofuran	0.18		mg/kg	0.18	0.017	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.18	0.037	1
Diethyl phthalate	ND		mg/kg	0.18	0.017	1
Fluorene	0.37		mg/kg	0.18	0.018	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.18	0.019	1
4-Nitroaniline	ND		mg/kg	0.18	0.075	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.47	0.087	1
NDPA/DPA	ND		mg/kg	0.14	0.021	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.18	0.028	1
Hexachlorobenzene	ND		mg/kg	0.11	0.020	1
Pentachlorophenol	ND		mg/kg	0.14	0.040	1
Atrazine	ND		mg/kg	0.14	0.064	1
Phenanthrene	5.9		mg/kg	0.11	0.022	1
Anthracene	2.1		mg/kg	0.11	0.035	1
Carbazole	0.32		mg/kg	0.18	0.018	1
Di-n-butylphthalate	ND		mg/kg	0.18	0.034	1
Fluoranthene	10.	E	mg/kg	0.11	0.021	1
Pyrene	8.8	E	mg/kg	0.11	0.018	1
Butyl benzyl phthalate	ND		mg/kg	0.18	0.046	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.18	0.048	1
Benzo(a)anthracene	6.6		mg/kg	0.11	0.020	1
Chrysene	4.8		mg/kg	0.11	0.019	1
Bis(2-ethylhexyl)phthalate	0.20		mg/kg	0.18	0.063	1
Di-n-octylphthalate	ND		mg/kg	0.18	0.062	1
Benzo(b)fluoranthene	9.5	E	mg/kg	0.11	0.031	1
Benzo(k)fluoranthene	1.4		mg/kg	0.11	0.029	1
Benzo(a)pyrene	6.7		mg/kg	0.14	0.044	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-22 Date Collected: 10/16/25 08:00

Client ID: FROG-SS-120 (0-2) Date Received: 10/16/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Indeno(1,2,3-cd)pyrene	3.8		mg/kg	0.14	0.025	1
Dibenzo(a,h)anthracene	0.64		mg/kg	0.11	0.021	1
Benzo(ghi)perylene	3.3		mg/kg	0.14	0.021	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		25-120
Phenol-d6	65		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	58		30-120
2,4,6-Tribromophenol	58		10-136
4-Terphenyl-d14	53		18-120

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-22 D
Client ID: FROG-SS-120 (0-2)
Sample Location: CARLISLE, PA

Date Collected: 10/16/25 08:00
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/27/25 12:52
Analyst: JG
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 10/19/25 08:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluoranthene	11.		mg/kg	0.54	0.10	5
Pyrene	9.3		mg/kg	0.54	0.090	5
Benzo(b)fluoranthene	6.9		mg/kg	0.54	0.15	5

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-23
Client ID: FROG-SS-120 (2-3.5)
Sample Location: CARLISLE, PA

Date Collected: 10/16/25 08:05
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/21/25 09:58
Analyst: IMK
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 10/19/25 08:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.24	0.050	1
Phenol	ND		mg/kg	0.19	0.028	1
Bis(2-chloroethyl)ether	ND		mg/kg	0.037	0.014	1
2-Chlorophenol	ND		mg/kg	0.19	0.022	1
2-Methylphenol	ND		mg/kg	0.19	0.029	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.22	0.032	1
Acetophenone	ND		mg/kg	0.19	0.023	1
1,4-Dioxane	ND		mg/kg	0.028	0.0085	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.037	0.018	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.27	0.029	1
Hexachloroethane	ND		mg/kg	0.15	0.030	1
Nitrobenzene	ND		mg/kg	0.17	0.028	1
Isophorone	ND		mg/kg	0.17	0.024	1
2-Nitrophenol	ND		mg/kg	0.40	0.070	1
2,4-Dimethylphenol	ND		mg/kg	0.19	0.061	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.20	0.019	1
2,4-Dichlorophenol	ND		mg/kg	0.17	0.030	1
Naphthalene	0.069		mg/kg	0.037	0.023	1
4-Chloroaniline	ND		mg/kg	0.19	0.034	1
Hexachlorobutadiene	ND		mg/kg	0.19	0.027	1
Caprolactam	ND		mg/kg	0.19	0.056	1
p-Chloro-m-cresol	ND		mg/kg	0.19	0.028	1
2-Methylnaphthalene	0.093	J	mg/kg	0.22	0.022	1
Hexachlorocyclopentadiene	ND		mg/kg	0.53	0.17	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.19	0.019	1
2,4,6-Trichlorophenol	ND		mg/kg	0.11	0.035	1
2,4,5-Trichlorophenol	ND		mg/kg	0.19	0.036	1
Biphenyl	ND		mg/kg	0.42	0.024	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-23 Date Collected: 10/16/25 08:05

Client ID: FROG-SS-120 (2-3.5) Date Received: 10/16/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chloronaphthalene	ND		mg/kg	0.19	0.018	1
2-Nitroaniline	ND		mg/kg	0.19	0.036	1
Dimethyl phthalate	ND		mg/kg	0.19	0.039	1
2,6-Dinitrotoluene	ND		mg/kg	0.19	0.032	1
Acenaphthylene	ND		mg/kg	0.15	0.029	1
3-Nitroaniline	ND		mg/kg	0.19	0.035	1
Acenaphthene	0.28		mg/kg	0.15	0.019	1
2,4-Dinitrophenol	ND		mg/kg	0.89	0.087	1
4-Nitrophenol	ND		mg/kg	0.26	0.076	1
2,4-Dinitrotoluene	ND		mg/kg	0.19	0.037	1
Dibenzofuran	0.099	J	mg/kg	0.19	0.018	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.19	0.038	1
Diethyl phthalate	ND		mg/kg	0.19	0.017	1
Fluorene	0.15	J	mg/kg	0.19	0.018	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.19	0.020	1
4-Nitroaniline	ND		mg/kg	0.19	0.077	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.48	0.089	1
NDPA/DPA	ND		mg/kg	0.15	0.021	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.19	0.028	1
Hexachlorobenzene	ND		mg/kg	0.11	0.021	1
Pentachlorophenol	ND		mg/kg	0.15	0.041	1
Atrazine	ND		mg/kg	0.15	0.065	1
Phenanthrene	1.9		mg/kg	0.11	0.023	1
Anthracene	0.49		mg/kg	0.11	0.036	1
Carbazole	0.22		mg/kg	0.19	0.018	1
Di-n-butylphthalate	ND		mg/kg	0.19	0.035	1
Fluoranthene	3.0		mg/kg	0.11	0.021	1
Pyrene	2.3		mg/kg	0.11	0.018	1
Butyl benzyl phthalate	ND		mg/kg	0.19	0.047	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.19	0.050	1
Benzo(a)anthracene	1.5		mg/kg	0.11	0.021	1
Chrysene	1.3		mg/kg	0.11	0.019	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.19	0.064	1
Di-n-octylphthalate	ND		mg/kg	0.19	0.063	1
Benzo(b)fluoranthene	2.0		mg/kg	0.11	0.031	1
Benzo(k)fluoranthene	0.54		mg/kg	0.11	0.030	1
Benzo(a)pyrene	1.5		mg/kg	0.15	0.045	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-23 Date Collected: 10/16/25 08:05

Client ID: FROG-SS-120 (2-3.5) Date Received: 10/16/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Indeno(1,2,3-cd)pyrene	1.0		mg/kg	0.15	0.026	1
Dibenzo(a,h)anthracene	0.20		mg/kg	0.11	0.022	1
Benzo(ghi)perylene	0.90		mg/kg	0.15	0.022	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		25-120
Phenol-d6	65		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	60		30-120
2,4,6-Tribromophenol	72		10-136
4-Terphenyl-d14	48		18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-24
Client ID: FROG-SS-121 (0-2)
Sample Location: CARLISLE, PA
Date Collected: 10/16/25 09:06
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/21/25 10:18
Analyst: IMK
Percent Solids: 91%
Extraction Method: EPA 3546
Extraction Date: 10/19/25 08:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.24	0.049	1
Phenol	0.043	J	mg/kg	0.18	0.027	1
Bis(2-chloroethyl)ether	ND		mg/kg	0.036	0.013	1
2-Chlorophenol	ND		mg/kg	0.18	0.021	1
2-Methylphenol	ND		mg/kg	0.18	0.028	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.22	0.031	1
Acetophenone	ND		mg/kg	0.18	0.022	1
1,4-Dioxane	ND		mg/kg	0.027	0.0082	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.036	0.017	1
3-Methylphenol/4-Methylphenol	0.071	J	mg/kg	0.26	0.028	1
Hexachloroethane	ND		mg/kg	0.14	0.029	1
Nitrobenzene	ND		mg/kg	0.16	0.027	1
Isophorone	ND		mg/kg	0.16	0.023	1
2-Nitrophenol	ND		mg/kg	0.39	0.068	1
2,4-Dimethylphenol	ND		mg/kg	0.18	0.059	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.19	0.018	1
2,4-Dichlorophenol	ND		mg/kg	0.16	0.029	1
Naphthalene	0.48		mg/kg	0.036	0.022	1
4-Chloroaniline	ND		mg/kg	0.18	0.033	1
Hexachlorobutadiene	ND		mg/kg	0.18	0.026	1
Caprolactam	ND		mg/kg	0.18	0.055	1
p-Chloro-m-cresol	ND		mg/kg	0.18	0.027	1
2-Methylnaphthalene	0.49		mg/kg	0.22	0.022	1
Hexachlorocyclopentadiene	ND		mg/kg	0.52	0.16	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.18	0.019	1
2,4,6-Trichlorophenol	ND		mg/kg	0.11	0.034	1
2,4,5-Trichlorophenol	ND		mg/kg	0.18	0.034	1
Biphenyl	0.071	J	mg/kg	0.41	0.023	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-24 Date Collected: 10/16/25 09:06

Client ID: FROG-SS-121 (0-2) Date Received: 10/16/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chloronaphthalene	ND		mg/kg	0.18	0.018	1
2-Nitroaniline	ND		mg/kg	0.18	0.035	1
Dimethyl phthalate	ND		mg/kg	0.18	0.038	1
2,6-Dinitrotoluene	ND		mg/kg	0.18	0.031	1
Acenaphthylene	0.49		mg/kg	0.14	0.028	1
3-Nitroaniline	ND		mg/kg	0.18	0.034	1
Acenaphthene	0.28		mg/kg	0.14	0.019	1
2,4-Dinitrophenol	ND		mg/kg	0.86	0.084	1
4-Nitrophenol	ND		mg/kg	0.25	0.073	1
2,4-Dinitrotoluene	ND		mg/kg	0.18	0.036	1
Dibenzofuran	0.35		mg/kg	0.18	0.017	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.18	0.036	1
Diethyl phthalate	ND		mg/kg	0.18	0.017	1
Fluorene	0.36		mg/kg	0.18	0.018	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.18	0.019	1
4-Nitroaniline	ND		mg/kg	0.18	0.074	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.47	0.086	1
NDPA/DPA	ND		mg/kg	0.14	0.020	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.18	0.027	1
Hexachlorobenzene	ND		mg/kg	0.11	0.020	1
Pentachlorophenol	ND		mg/kg	0.14	0.040	1
Atrazine	ND		mg/kg	0.14	0.063	1
Phenanthrene	5.8		mg/kg	0.11	0.022	1
Anthracene	1.1		mg/kg	0.11	0.035	1
Carbazole	0.55		mg/kg	0.18	0.018	1
Di-n-butylphthalate	ND		mg/kg	0.18	0.034	1
Fluoranthene	7.2		mg/kg	0.11	0.021	1
Pyrene	6.0		mg/kg	0.11	0.018	1
Butyl benzyl phthalate	ND		mg/kg	0.18	0.045	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.18	0.048	1
Benzo(a)anthracene	3.8		mg/kg	0.11	0.020	1
Chrysene	3.6		mg/kg	0.11	0.019	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.18	0.062	1
Di-n-octylphthalate	ND		mg/kg	0.18	0.061	1
Benzo(b)fluoranthene	5.0		mg/kg	0.11	0.030	1
Benzo(k)fluoranthene	1.2		mg/kg	0.11	0.029	1
Benzo(a)pyrene	3.7		mg/kg	0.14	0.044	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-24 Date Collected: 10/16/25 09:06

Client ID: FROG-SS-121 (0-2) Date Received: 10/16/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Indeno(1,2,3-cd)pyrene	2.5		mg/kg	0.14	0.025	1
Dibenzo(a,h)anthracene	0.43		mg/kg	0.11	0.021	1
Benzo(ghi)perylene	2.4		mg/kg	0.14	0.021	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	36		25-120
Phenol-d6	45		10-120
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	66		30-120
2,4,6-Tribromophenol	60		10-136
4-Terphenyl-d14	42		18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-25
Client ID: FROG-SS-121 (22-24)
Sample Location: CARLISLE, PA

Date Collected: 10/16/25 09:16
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/21/25 03:40
Analyst: IMK
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 10/19/25 08:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.26	0.053	1
Phenol	ND		mg/kg	0.20	0.030	1
Bis(2-chloroethyl)ether	ND		mg/kg	0.039	0.014	1
2-Chlorophenol	ND		mg/kg	0.20	0.023	1
2-Methylphenol	ND		mg/kg	0.20	0.030	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.24	0.034	1
Acetophenone	ND		mg/kg	0.20	0.024	1
1,4-Dioxane	ND		mg/kg	0.030	0.0090	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.039	0.019	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.28	0.031	1
Hexachloroethane	ND		mg/kg	0.16	0.032	1
Nitrobenzene	ND		mg/kg	0.18	0.029	1
Isophorone	ND		mg/kg	0.18	0.026	1
2-Nitrophenol	ND		mg/kg	0.42	0.074	1
2,4-Dimethylphenol	ND		mg/kg	0.20	0.065	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.21	0.020	1
2,4-Dichlorophenol	ND		mg/kg	0.18	0.032	1
Naphthalene	ND		mg/kg	0.039	0.024	1
4-Chloroaniline	ND		mg/kg	0.20	0.036	1
Hexachlorobutadiene	ND		mg/kg	0.20	0.029	1
Caprolactam	ND		mg/kg	0.20	0.060	1
p-Chloro-m-cresol	ND		mg/kg	0.20	0.029	1
2-Methylnaphthalene	ND		mg/kg	0.24	0.024	1
Hexachlorocyclopentadiene	ND		mg/kg	0.56	0.18	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.20	0.020	1
2,4,6-Trichlorophenol	ND		mg/kg	0.12	0.037	1
2,4,5-Trichlorophenol	ND		mg/kg	0.20	0.038	1
Biphenyl	ND		mg/kg	0.45	0.026	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-25 Date Collected: 10/16/25 09:16

Client ID: FROG-SS-121 (22-24) Date Received: 10/16/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chloronaphthalene	ND		mg/kg	0.20	0.020	1
2-Nitroaniline	ND		mg/kg	0.20	0.038	1
Dimethyl phthalate	ND		mg/kg	0.20	0.041	1
2,6-Dinitrotoluene	ND		mg/kg	0.20	0.034	1
Acenaphthylene	ND		mg/kg	0.16	0.030	1
3-Nitroaniline	ND		mg/kg	0.20	0.037	1
Acenaphthene	ND		mg/kg	0.16	0.020	1
2,4-Dinitrophenol	ND		mg/kg	0.94	0.092	1
4-Nitrophenol	ND		mg/kg	0.28	0.080	1
2,4-Dinitrotoluene	ND		mg/kg	0.20	0.039	1
Dibenzofuran	ND		mg/kg	0.20	0.019	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.20	0.040	1
Diethyl phthalate	ND		mg/kg	0.20	0.018	1
Fluorene	ND		mg/kg	0.20	0.019	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.20	0.021	1
4-Nitroaniline	ND		mg/kg	0.20	0.081	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.51	0.094	1
NDPA/DPA	ND		mg/kg	0.16	0.022	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.20	0.030	1
Hexachlorobenzene	ND		mg/kg	0.12	0.022	1
Pentachlorophenol	ND		mg/kg	0.16	0.043	1
Atrazine	ND		mg/kg	0.16	0.069	1
Phenanthrene	ND		mg/kg	0.12	0.024	1
Anthracene	ND		mg/kg	0.12	0.038	1
Carbazole	ND		mg/kg	0.20	0.019	1
Di-n-butylphthalate	ND		mg/kg	0.20	0.037	1
Fluoranthene	ND		mg/kg	0.12	0.022	1
Pyrene	ND		mg/kg	0.12	0.020	1
Butyl benzyl phthalate	ND		mg/kg	0.20	0.050	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.20	0.052	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.022	1
Chrysene	ND		mg/kg	0.12	0.020	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.20	0.068	1
Di-n-octylphthalate	ND		mg/kg	0.20	0.067	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.033	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.031	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.048	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-25 Date Collected: 10/16/25 09:16

Client ID: FROG-SS-121 (22-24) Date Received: 10/16/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.027	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.023	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.023	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		25-120
Phenol-d6	62		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	58		30-120
2,4,6-Tribromophenol	62		10-136
4-Terphenyl-d14	52		18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-26
Client ID: FROG-SS-DUP-102
Sample Location: CARLISLE, PA
Date Collected: 10/16/25 00:00
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/21/25 04:43
Analyst: IMK
Percent Solids: 80%
Extraction Method: EPA 3546
Extraction Date: 10/19/25 08:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.27	0.056	1
Phenol	ND		mg/kg	0.21	0.031	1
Bis(2-chloroethyl)ether	ND		mg/kg	0.041	0.015	1
2-Chlorophenol	ND		mg/kg	0.21	0.024	1
2-Methylphenol	ND		mg/kg	0.21	0.032	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.25	0.035	1
Acetophenone	ND		mg/kg	0.21	0.026	1
1,4-Dioxane	ND		mg/kg	0.031	0.0094	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.041	0.020	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.30	0.032	1
Hexachloroethane	ND		mg/kg	0.16	0.034	1
Nitrobenzene	ND		mg/kg	0.19	0.031	1
Isophorone	ND		mg/kg	0.19	0.027	1
2-Nitrophenol	ND		mg/kg	0.45	0.078	1
2,4-Dimethylphenol	ND		mg/kg	0.21	0.068	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.22	0.021	1
2,4-Dichlorophenol	ND		mg/kg	0.19	0.033	1
Naphthalene	ND		mg/kg	0.041	0.025	1
4-Chloroaniline	ND		mg/kg	0.21	0.038	1
Hexachlorobutadiene	ND		mg/kg	0.21	0.030	1
Caprolactam	ND		mg/kg	0.21	0.063	1
p-Chloro-m-cresol	ND		mg/kg	0.21	0.031	1
2-Methylnaphthalene	ND		mg/kg	0.25	0.025	1
Hexachlorocyclopentadiene	ND		mg/kg	0.59	0.19	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.21	0.022	1
2,4,6-Trichlorophenol	ND		mg/kg	0.12	0.039	1
2,4,5-Trichlorophenol	ND		mg/kg	0.21	0.040	1
Biphenyl	ND		mg/kg	0.47	0.027	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-26 Date Collected: 10/16/25 00:00

Client ID: FROG-SS-DUP-102 Date Received: 10/16/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chloronaphthalene	ND		mg/kg	0.21	0.020	1
2-Nitroaniline	ND		mg/kg	0.21	0.040	1
Dimethyl phthalate	ND		mg/kg	0.21	0.044	1
2,6-Dinitrotoluene	ND		mg/kg	0.21	0.036	1
Acenaphthylene	ND		mg/kg	0.16	0.032	1
3-Nitroaniline	ND		mg/kg	0.21	0.039	1
Acenaphthene	ND		mg/kg	0.16	0.021	1
2,4-Dinitrophenol	ND		mg/kg	0.99	0.096	1
4-Nitrophenol	ND		mg/kg	0.29	0.084	1
2,4-Dinitrotoluene	ND		mg/kg	0.21	0.041	1
Dibenzofuran	ND		mg/kg	0.21	0.020	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.21	0.042	1
Diethyl phthalate	ND		mg/kg	0.21	0.019	1
Fluorene	ND		mg/kg	0.21	0.020	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.21	0.022	1
4-Nitroaniline	ND		mg/kg	0.21	0.086	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.54	0.099	1
NDPA/DPA	ND		mg/kg	0.16	0.024	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.21	0.032	1
Hexachlorobenzene	ND		mg/kg	0.12	0.023	1
Pentachlorophenol	ND		mg/kg	0.16	0.046	1
Atrazine	ND		mg/kg	0.16	0.072	1
Phenanthrene	ND		mg/kg	0.12	0.025	1
Anthracene	ND		mg/kg	0.12	0.040	1
Carbazole	ND		mg/kg	0.21	0.020	1
Di-n-butylphthalate	ND		mg/kg	0.21	0.039	1
Fluoranthene	ND		mg/kg	0.12	0.024	1
Pyrene	ND		mg/kg	0.12	0.021	1
Butyl benzyl phthalate	ND		mg/kg	0.21	0.052	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.21	0.055	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.023	1
Chrysene	ND		mg/kg	0.12	0.022	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.21	0.072	1
Di-n-octylphthalate	ND		mg/kg	0.21	0.070	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.035	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.033	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.050	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-26 Date Collected: 10/16/25 00:00

Client ID: FROG-SS-DUP-102 Date Received: 10/16/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.029	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.024	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.024	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	59		25-120
Phenol-d6	61		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	62		30-120
2,4,6-Tribromophenol	62		10-136
4-Terphenyl-d14	62		18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-27
Client ID: FROG-SS-FB-102
Sample Location: CARLISLE, PA
Date Collected: 10/16/25 13:10
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 10/18/25 17:02
Analyst: SMZ
Extraction Method: EPA 3510C
Extraction Date: 10/18/25 05:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		ug/l	5.0	1.1	1
Phenol	ND		ug/l	5.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.65	1
2-Methylphenol	ND		ug/l	5.0	2.3	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.40	1
Acetophenone	ND		ug/l	5.0	0.92	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.4	1
Nitrobenzene	ND		ug/l	1.4	0.20	1
Isophorone	ND		ug/l	5.0	0.86	1
2-Nitrophenol	ND		ug/l	5.0	2.0	1
2,4-Dimethylphenol	ND		ug/l	5.0	2.0	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.84	1
2,4-Dichlorophenol	ND		ug/l	5.0	1.7	1
Naphthalene	ND		ug/l	2.0	0.54	1
4-Chloroaniline	ND		ug/l	3.7	0.47	1
Hexachlorobutadiene	ND		ug/l	2.0	0.36	1
Caprolactam	ND		ug/l	10	1.2	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.61	1
2-Methylnaphthalene	ND		ug/l	2.0	0.37	1
Hexachlorocyclopentadiene	ND		ug/l	20	1.2	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	1.7	0.24	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	2.1	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	2.1	1
Biphenyl	ND		ug/l	2.0	0.20	1
2-Chloronaphthalene	ND		ug/l	2.0	0.35	1
2-Nitroaniline	ND		ug/l	5.0	1.0	1
Dimethyl phthalate	ND		ug/l	5.0	0.92	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.84	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-27 Date Collected: 10/16/25 13:10

Client ID: FROG-SS-FB-102 Date Received: 10/16/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthylene	ND		ug/l	2.0	0.32	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
Acenaphthene	ND		ug/l	2.0	0.40	1
2,4-Dinitrophenol	ND		ug/l	20	5.4	1
4-Nitrophenol	ND		ug/l	10	1.4	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.54	1
Dibenzofuran	ND		ug/l	2.0	0.40	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	2.2	1
Diethyl phthalate	ND		ug/l	5.0	0.76	1
Fluorene	ND		ug/l	2.0	0.44	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.39	1
4-Nitroaniline	ND		ug/l	5.0	1.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.3	1
NDPA/DPA	ND		ug/l	2.0	0.92	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.24	1
Atrazine	ND		ug/l	3.0	1.0	1
Phenanthrene	ND		ug/l	2.0	0.42	1
Anthracene	ND		ug/l	2.0	0.47	1
Carbazole	ND		ug/l	2.0	0.31	1
Di-n-butylphthalate	ND		ug/l	5.0	0.96	1
Fluoranthene	ND		ug/l	2.0	0.41	1
Pyrene	ND		ug/l	2.0	0.41	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.6	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.8	1
Chrysene	ND		ug/l	1.5	0.22	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	1.4	1
Di-n-octylphthalate	ND		ug/l	5.0	2.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		21-120
Phenol-d6	50		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	69		15-120
2,4,6-Tribromophenol	96		10-120
4-Terphenyl-d14	97		41-149

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-28
Client ID: FROG-SS-101 (0-2)
Sample Location: CARLISLE, PA

Date Collected: 10/17/25 12:40
Date Received: 10/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/21/25 18:41
Analyst: SMZ
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 10/19/25 23:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.25	0.052	1
Phenol	ND		mg/kg	0.19	0.029	1
Bis(2-chloroethyl)ether	ND		mg/kg	0.038	0.014	1
2-Chlorophenol	ND		mg/kg	0.19	0.023	1
2-Methylphenol	ND		mg/kg	0.19	0.030	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.23	0.033	1
Acetophenone	ND		mg/kg	0.19	0.024	1
1,4-Dioxane	ND		mg/kg	0.029	0.0088	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.038	0.018	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.28	0.030	1
Hexachloroethane	ND		mg/kg	0.15	0.031	1
Nitrobenzene	ND		mg/kg	0.17	0.028	1
Isophorone	ND		mg/kg	0.17	0.025	1
2-Nitrophenol	ND		mg/kg	0.42	0.072	1
2,4-Dimethylphenol	ND		mg/kg	0.19	0.064	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.21	0.019	1
2,4-Dichlorophenol	ND		mg/kg	0.17	0.031	1
Naphthalene	0.038		mg/kg	0.038	0.023	1
4-Chloroaniline	ND		mg/kg	0.19	0.035	1
Hexachlorobutadiene	ND		mg/kg	0.19	0.028	1
Caprolactam	ND		mg/kg	0.19	0.058	1
p-Chloro-m-cresol	ND		mg/kg	0.19	0.029	1
2-Methylnaphthalene	0.046	J	mg/kg	0.23	0.023	1
Hexachlorocyclopentadiene	ND		mg/kg	0.55	0.17	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.19	0.020	1
2,4,6-Trichlorophenol	ND		mg/kg	0.12	0.036	1
2,4,5-Trichlorophenol	ND		mg/kg	0.19	0.037	1
Biphenyl	ND		mg/kg	0.44	0.025	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-28 Date Collected: 10/17/25 12:40

Client ID: FROG-SS-101 (0-2) Date Received: 10/17/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chloronaphthalene	ND		mg/kg	0.19	0.019	1
2-Nitroaniline	ND		mg/kg	0.19	0.037	1
Dimethyl phthalate	ND		mg/kg	0.19	0.040	1
2,6-Dinitrotoluene	ND		mg/kg	0.19	0.033	1
Acenaphthylene	0.042	J	mg/kg	0.15	0.030	1
3-Nitroaniline	ND		mg/kg	0.19	0.036	1
Acenaphthene	ND		mg/kg	0.15	0.020	1
2,4-Dinitrophenol	ND		mg/kg	0.92	0.090	1
4-Nitrophenol	ND		mg/kg	0.27	0.078	1
2,4-Dinitrotoluene	ND		mg/kg	0.19	0.038	1
Dibenzofuran	ND		mg/kg	0.19	0.018	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.19	0.039	1
Diethyl phthalate	ND		mg/kg	0.19	0.018	1
Fluorene	ND		mg/kg	0.19	0.019	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.19	0.020	1
4-Nitroaniline	ND		mg/kg	0.19	0.080	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.50	0.092	1
NDPA/DPA	ND		mg/kg	0.15	0.022	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.19	0.029	1
Hexachlorobenzene	ND		mg/kg	0.12	0.022	1
Pentachlorophenol	ND		mg/kg	0.15	0.042	1
Atrazine	ND		mg/kg	0.15	0.067	1
Phenanthrene	0.17		mg/kg	0.12	0.023	1
Anthracene	0.042	J	mg/kg	0.12	0.038	1
Carbazole	ND		mg/kg	0.19	0.019	1
Di-n-butylphthalate	ND		mg/kg	0.19	0.036	1
Fluoranthene	0.22		mg/kg	0.12	0.022	1
Pyrene	0.23		mg/kg	0.12	0.019	1
Butyl benzyl phthalate	ND		mg/kg	0.19	0.048	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.19	0.051	1
Benzo(a)anthracene	0.12		mg/kg	0.12	0.022	1
Chrysene	0.19		mg/kg	0.12	0.020	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.19	0.066	1
Di-n-octylphthalate	ND		mg/kg	0.19	0.065	1
Benzo(b)fluoranthene	0.18		mg/kg	0.12	0.032	1
Benzo(k)fluoranthene	0.047	J	mg/kg	0.12	0.031	1
Benzo(a)pyrene	0.11	J	mg/kg	0.15	0.047	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-28 Date Collected: 10/17/25 12:40

Client ID: FROG-SS-101 (0-2) Date Received: 10/17/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Indeno(1,2,3-cd)pyrene	0.098	J	mg/kg	0.15	0.027	1
Dibenzo(a,h)anthracene	0.025	J	mg/kg	0.12	0.022	1
Benzo(ghi)perylene	0.10	J	mg/kg	0.15	0.023	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		25-120
Phenol-d6	65		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	68		30-120
2,4,6-Tribromophenol	62		10-136
4-Terphenyl-d14	56		18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-29
Client ID: FROG-SS-101 (3-5)
Sample Location: CARLISLE, PA
Date Collected: 10/17/25 12:41
Date Received: 10/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/21/25 19:04
Analyst: SMZ
Percent Solids: 79%
Extraction Method: EPA 3546
Extraction Date: 10/19/25 23:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.27	0.056	1
Phenol	ND		mg/kg	0.21	0.031	1
Bis(2-chloroethyl)ether	ND		mg/kg	0.041	0.015	1
2-Chlorophenol	ND		mg/kg	0.21	0.024	1
2-Methylphenol	ND		mg/kg	0.21	0.032	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.25	0.035	1
Acetophenone	ND		mg/kg	0.21	0.026	1
1,4-Dioxane	ND		mg/kg	0.031	0.0094	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.041	0.020	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.30	0.032	1
Hexachloroethane	ND		mg/kg	0.16	0.034	1
Nitrobenzene	ND		mg/kg	0.19	0.031	1
Isophorone	ND		mg/kg	0.19	0.027	1
2-Nitrophenol	ND		mg/kg	0.45	0.078	1
2,4-Dimethylphenol	ND		mg/kg	0.21	0.068	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.22	0.021	1
2,4-Dichlorophenol	ND		mg/kg	0.19	0.033	1
Naphthalene	ND		mg/kg	0.041	0.025	1
4-Chloroaniline	ND		mg/kg	0.21	0.038	1
Hexachlorobutadiene	ND		mg/kg	0.21	0.030	1
Caprolactam	ND		mg/kg	0.21	0.063	1
p-Chloro-m-cresol	ND		mg/kg	0.21	0.031	1
2-Methylnaphthalene	ND		mg/kg	0.25	0.025	1
Hexachlorocyclopentadiene	ND		mg/kg	0.59	0.19	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.21	0.022	1
2,4,6-Trichlorophenol	ND		mg/kg	0.12	0.039	1
2,4,5-Trichlorophenol	ND		mg/kg	0.21	0.040	1
Biphenyl	ND		mg/kg	0.47	0.027	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-29 Date Collected: 10/17/25 12:41

Client ID: FROG-SS-101 (3-5) Date Received: 10/17/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chloronaphthalene	ND		mg/kg	0.21	0.020	1
2-Nitroaniline	ND		mg/kg	0.21	0.040	1
Dimethyl phthalate	ND		mg/kg	0.21	0.043	1
2,6-Dinitrotoluene	ND		mg/kg	0.21	0.036	1
Acenaphthylene	ND		mg/kg	0.16	0.032	1
3-Nitroaniline	ND		mg/kg	0.21	0.039	1
Acenaphthene	ND		mg/kg	0.16	0.021	1
2,4-Dinitrophenol	ND		mg/kg	0.99	0.096	1
4-Nitrophenol	ND		mg/kg	0.29	0.084	1
2,4-Dinitrotoluene	ND		mg/kg	0.21	0.041	1
Dibenzofuran	ND		mg/kg	0.21	0.020	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.21	0.042	1
Diethyl phthalate	ND		mg/kg	0.21	0.019	1
Fluorene	ND		mg/kg	0.21	0.020	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.21	0.022	1
4-Nitroaniline	ND		mg/kg	0.21	0.086	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.54	0.099	1
NDPA/DPA	ND		mg/kg	0.16	0.024	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.21	0.032	1
Hexachlorobenzene	ND		mg/kg	0.12	0.023	1
Pentachlorophenol	ND		mg/kg	0.16	0.046	1
Atrazine	ND		mg/kg	0.16	0.072	1
Phenanthrene	ND		mg/kg	0.12	0.025	1
Anthracene	ND		mg/kg	0.12	0.040	1
Carbazole	ND		mg/kg	0.21	0.020	1
Di-n-butylphthalate	ND		mg/kg	0.21	0.039	1
Fluoranthene	ND		mg/kg	0.12	0.024	1
Pyrene	ND		mg/kg	0.12	0.020	1
Butyl benzyl phthalate	ND		mg/kg	0.21	0.052	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.21	0.055	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.023	1
Chrysene	ND		mg/kg	0.12	0.022	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.21	0.072	1
Di-n-octylphthalate	ND		mg/kg	0.21	0.070	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.035	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.033	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.050	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-29 Date Collected: 10/17/25 12:41

Client ID: FROG-SS-101 (3-5) Date Received: 10/17/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.029	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.024	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.024	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	58		25-120
Phenol-d6	70		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	78		10-136
4-Terphenyl-d14	70		18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-30
Client ID: FROG-SS-102 (0-2)
Sample Location: CARLISLE, PA
Date Collected: 10/17/25 13:45
Date Received: 10/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/21/25 19:27
Analyst: SMZ
Percent Solids: 89%
Extraction Method: EPA 3546
Extraction Date: 10/19/25 23:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.24	0.049	1
Phenol	ND		mg/kg	0.18	0.028	1
Bis(2-chloroethyl)ether	ND		mg/kg	0.036	0.013	1
2-Chlorophenol	ND		mg/kg	0.18	0.022	1
2-Methylphenol	ND		mg/kg	0.18	0.028	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.22	0.031	1
Acetophenone	ND		mg/kg	0.18	0.022	1
1,4-Dioxane	ND		mg/kg	0.027	0.0083	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.036	0.017	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.26	0.028	1
Hexachloroethane	ND		mg/kg	0.14	0.029	1
Nitrobenzene	ND		mg/kg	0.16	0.027	1
Isophorone	ND		mg/kg	0.16	0.024	1
2-Nitrophenol	ND		mg/kg	0.39	0.068	1
2,4-Dimethylphenol	ND		mg/kg	0.18	0.060	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.20	0.018	1
2,4-Dichlorophenol	ND		mg/kg	0.16	0.029	1
Naphthalene	0.055		mg/kg	0.036	0.022	1
4-Chloroaniline	ND		mg/kg	0.18	0.033	1
Hexachlorobutadiene	ND		mg/kg	0.18	0.027	1
Caprolactam	ND		mg/kg	0.18	0.055	1
p-Chloro-m-cresol	ND		mg/kg	0.18	0.027	1
2-Methylnaphthalene	0.13	J	mg/kg	0.22	0.022	1
Hexachlorocyclopentadiene	ND		mg/kg	0.52	0.16	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.18	0.019	1
2,4,6-Trichlorophenol	ND		mg/kg	0.11	0.034	1
2,4,5-Trichlorophenol	ND		mg/kg	0.18	0.035	1
Biphenyl	0.031	J	mg/kg	0.42	0.024	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-30 Date Collected: 10/17/25 13:45

Client ID: FROG-SS-102 (0-2) Date Received: 10/17/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chloronaphthalene	ND		mg/kg	0.18	0.018	1
2-Nitroaniline	ND		mg/kg	0.18	0.035	1
Dimethyl phthalate	ND		mg/kg	0.18	0.038	1
2,6-Dinitrotoluene	ND		mg/kg	0.18	0.031	1
Acenaphthylene	0.033	J	mg/kg	0.14	0.028	1
3-Nitroaniline	ND		mg/kg	0.18	0.034	1
Acenaphthene	ND		mg/kg	0.14	0.019	1
2,4-Dinitrophenol	ND		mg/kg	0.87	0.085	1
4-Nitrophenol	ND		mg/kg	0.26	0.074	1
2,4-Dinitrotoluene	ND		mg/kg	0.18	0.036	1
Dibenzofuran	ND		mg/kg	0.18	0.017	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.18	0.037	1
Diethyl phthalate	ND		mg/kg	0.18	0.017	1
Fluorene	ND		mg/kg	0.18	0.018	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.18	0.020	1
4-Nitroaniline	ND		mg/kg	0.18	0.075	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.47	0.087	1
NDPA/DPA	ND		mg/kg	0.14	0.021	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.18	0.028	1
Hexachlorobenzene	ND		mg/kg	0.11	0.020	1
Pentachlorophenol	ND		mg/kg	0.14	0.040	1
Atrazine	ND		mg/kg	0.14	0.064	1
Phenanthrene	0.16		mg/kg	0.11	0.022	1
Anthracene	ND		mg/kg	0.11	0.036	1
Carbazole	ND		mg/kg	0.18	0.018	1
Di-n-butylphthalate	ND		mg/kg	0.18	0.034	1
Fluoranthene	0.22		mg/kg	0.11	0.021	1
Pyrene	0.21		mg/kg	0.11	0.018	1
Butyl benzyl phthalate	ND		mg/kg	0.18	0.046	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.18	0.048	1
Benzo(a)anthracene	0.11		mg/kg	0.11	0.020	1
Chrysene	0.14		mg/kg	0.11	0.019	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.18	0.063	1
Di-n-octylphthalate	ND		mg/kg	0.18	0.062	1
Benzo(b)fluoranthene	0.16		mg/kg	0.11	0.031	1
Benzo(k)fluoranthene	0.046	J	mg/kg	0.11	0.029	1
Benzo(a)pyrene	0.11	J	mg/kg	0.14	0.044	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-30 Date Collected: 10/17/25 13:45

Client ID: FROG-SS-102 (0-2) Date Received: 10/17/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Indeno(1,2,3-cd)pyrene	0.086	J	mg/kg	0.14	0.025	1
Dibenzo(a,h)anthracene	0.023	J	mg/kg	0.11	0.021	1
Benzo(ghi)perylene	0.085	J	mg/kg	0.14	0.021	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		25-120
Phenol-d6	63		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	67		30-120
2,4,6-Tribromophenol	68		10-136
4-Terphenyl-d14	62		18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-31
Client ID: FROG-SS-102 (19-21)
Sample Location: CARLISLE, PA

Date Collected: 10/17/25 13:51
Date Received: 10/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/21/25 19:51
Analyst: SMZ
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 10/19/25 23:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.27	0.055	1
Phenol	ND		mg/kg	0.20	0.031	1
Bis(2-chloroethyl)ether	ND		mg/kg	0.041	0.015	1
2-Chlorophenol	ND		mg/kg	0.20	0.024	1
2-Methylphenol	ND		mg/kg	0.20	0.032	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.24	0.035	1
Acetophenone	ND		mg/kg	0.20	0.025	1
1,4-Dioxane	ND		mg/kg	0.031	0.0093	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.041	0.020	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.30	0.032	1
Hexachloroethane	ND		mg/kg	0.16	0.033	1
Nitrobenzene	ND		mg/kg	0.18	0.030	1
Isophorone	ND		mg/kg	0.18	0.027	1
2-Nitrophenol	ND		mg/kg	0.44	0.077	1
2,4-Dimethylphenol	ND		mg/kg	0.20	0.068	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.22	0.020	1
2,4-Dichlorophenol	ND		mg/kg	0.18	0.033	1
Naphthalene	ND		mg/kg	0.041	0.025	1
4-Chloroaniline	ND		mg/kg	0.20	0.037	1
Hexachlorobutadiene	ND		mg/kg	0.20	0.030	1
Caprolactam	ND		mg/kg	0.20	0.062	1
p-Chloro-m-cresol	ND		mg/kg	0.20	0.030	1
2-Methylnaphthalene	ND		mg/kg	0.24	0.025	1
Hexachlorocyclopentadiene	ND		mg/kg	0.59	0.18	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.20	0.021	1
2,4,6-Trichlorophenol	ND		mg/kg	0.12	0.039	1
2,4,5-Trichlorophenol	ND		mg/kg	0.20	0.039	1
Biphenyl	ND		mg/kg	0.47	0.027	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-31 Date Collected: 10/17/25 13:51

Client ID: FROG-SS-102 (19-21) Date Received: 10/17/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chloronaphthalene	ND		mg/kg	0.20	0.020	1
2-Nitroaniline	ND		mg/kg	0.20	0.040	1
Dimethyl phthalate	ND		mg/kg	0.20	0.043	1
2,6-Dinitrotoluene	ND		mg/kg	0.20	0.035	1
Acenaphthylene	ND		mg/kg	0.16	0.032	1
3-Nitroaniline	ND		mg/kg	0.20	0.039	1
Acenaphthene	ND		mg/kg	0.16	0.021	1
2,4-Dinitrophenol	ND		mg/kg	0.98	0.096	1
4-Nitrophenol	ND		mg/kg	0.29	0.084	1
2,4-Dinitrotoluene	ND		mg/kg	0.20	0.041	1
Dibenzofuran	ND		mg/kg	0.20	0.019	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.20	0.041	1
Diethyl phthalate	ND		mg/kg	0.20	0.019	1
Fluorene	ND		mg/kg	0.20	0.020	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.20	0.022	1
4-Nitroaniline	ND		mg/kg	0.20	0.085	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.53	0.098	1
NDPA/DPA	ND		mg/kg	0.16	0.023	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.20	0.031	1
Hexachlorobenzene	ND		mg/kg	0.12	0.023	1
Pentachlorophenol	ND		mg/kg	0.16	0.045	1
Atrazine	ND		mg/kg	0.16	0.072	1
Phenanthrene	ND		mg/kg	0.12	0.025	1
Anthracene	ND		mg/kg	0.12	0.040	1
Carbazole	ND		mg/kg	0.20	0.020	1
Di-n-butylphthalate	ND		mg/kg	0.20	0.039	1
Fluoranthene	ND		mg/kg	0.12	0.024	1
Pyrene	ND		mg/kg	0.12	0.020	1
Butyl benzyl phthalate	ND		mg/kg	0.20	0.052	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.20	0.054	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.023	1
Chrysene	ND		mg/kg	0.12	0.021	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.20	0.071	1
Di-n-octylphthalate	ND		mg/kg	0.20	0.070	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.034	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.033	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.050	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-31 Date Collected: 10/17/25 13:51

Client ID: FROG-SS-102 (19-21) Date Received: 10/17/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.028	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.024	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.024	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		25-120
Phenol-d6	70		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	68		30-120
2,4,6-Tribromophenol	64		10-136
4-Terphenyl-d14	60		18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-32
Client ID: FROG-SS-115 (0-2)
Sample Location: CARLISLE, PA
Date Collected: 10/17/25 10:43
Date Received: 10/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/21/25 20:14
Analyst: SMZ
Percent Solids: 92%
Extraction Method: EPA 3546
Extraction Date: 10/19/25 23:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.24	0.048	1
Phenol	ND		mg/kg	0.18	0.027	1
Bis(2-chloroethyl)ether	ND		mg/kg	0.036	0.013	1
2-Chlorophenol	ND		mg/kg	0.18	0.021	1
2-Methylphenol	ND		mg/kg	0.18	0.028	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.21	0.030	1
Acetophenone	ND		mg/kg	0.18	0.022	1
1,4-Dioxane	ND		mg/kg	0.027	0.0082	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.036	0.017	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.26	0.028	1
Hexachloroethane	ND		mg/kg	0.14	0.029	1
Nitrobenzene	ND		mg/kg	0.16	0.026	1
Isophorone	ND		mg/kg	0.16	0.023	1
2-Nitrophenol	ND		mg/kg	0.39	0.067	1
2,4-Dimethylphenol	ND		mg/kg	0.18	0.059	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.19	0.018	1
2,4-Dichlorophenol	ND		mg/kg	0.16	0.029	1
Naphthalene	0.37		mg/kg	0.036	0.022	1
4-Chloroaniline	ND		mg/kg	0.18	0.032	1
Hexachlorobutadiene	ND		mg/kg	0.18	0.026	1
Caprolactam	ND		mg/kg	0.18	0.054	1
p-Chloro-m-cresol	ND		mg/kg	0.18	0.027	1
2-Methylnaphthalene	0.49		mg/kg	0.21	0.022	1
Hexachlorocyclopentadiene	ND		mg/kg	0.51	0.16	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.18	0.019	1
2,4,6-Trichlorophenol	ND		mg/kg	0.11	0.034	1
2,4,5-Trichlorophenol	ND		mg/kg	0.18	0.034	1
Biphenyl	0.052	J	mg/kg	0.41	0.023	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-32 Date Collected: 10/17/25 10:43

Client ID: FROG-SS-115 (0-2) Date Received: 10/17/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chloronaphthalene	ND		mg/kg	0.18	0.018	1
2-Nitroaniline	ND		mg/kg	0.18	0.034	1
Dimethyl phthalate	ND		mg/kg	0.18	0.038	1
2,6-Dinitrotoluene	ND		mg/kg	0.18	0.031	1
Acenaphthylene	0.11	J	mg/kg	0.14	0.028	1
3-Nitroaniline	ND		mg/kg	0.18	0.034	1
Acenaphthene	ND		mg/kg	0.14	0.018	1
2,4-Dinitrophenol	ND		mg/kg	0.86	0.083	1
4-Nitrophenol	ND		mg/kg	0.25	0.073	1
2,4-Dinitrotoluene	ND		mg/kg	0.18	0.036	1
Dibenzofuran	0.10	J	mg/kg	0.18	0.017	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.18	0.036	1
Diethyl phthalate	ND		mg/kg	0.18	0.016	1
Fluorene	0.044	J	mg/kg	0.18	0.017	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.18	0.019	1
4-Nitroaniline	ND		mg/kg	0.18	0.074	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.46	0.086	1
NDPA/DPA	ND		mg/kg	0.14	0.020	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.18	0.027	1
Hexachlorobenzene	ND		mg/kg	0.11	0.020	1
Pentachlorophenol	ND		mg/kg	0.14	0.039	1
Atrazine	ND		mg/kg	0.14	0.063	1
Phenanthrene	0.46		mg/kg	0.11	0.022	1
Anthracene	0.090	J	mg/kg	0.11	0.035	1
Carbazole	0.030	J	mg/kg	0.18	0.017	1
Di-n-butylphthalate	ND		mg/kg	0.18	0.034	1
Fluoranthene	0.39		mg/kg	0.11	0.020	1
Pyrene	0.48		mg/kg	0.11	0.018	1
Butyl benzyl phthalate	ND		mg/kg	0.18	0.045	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.18	0.048	1
Benzo(a)anthracene	0.28		mg/kg	0.11	0.020	1
Chrysene	0.40		mg/kg	0.11	0.019	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.18	0.062	1
Di-n-octylphthalate	ND		mg/kg	0.18	0.061	1
Benzo(b)fluoranthene	0.34		mg/kg	0.11	0.030	1
Benzo(k)fluoranthene	0.10	J	mg/kg	0.11	0.029	1
Benzo(a)pyrene	0.28		mg/kg	0.14	0.044	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-32 Date Collected: 10/17/25 10:43

Client ID: FROG-SS-115 (0-2) Date Received: 10/17/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Indeno(1,2,3-cd)pyrene	0.18		mg/kg	0.14	0.025	1
Dibenzo(a,h)anthracene	0.076	J	mg/kg	0.11	0.021	1
Benzo(ghi)perylene	0.22		mg/kg	0.14	0.021	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		25-120
Phenol-d6	62		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	75		30-120
2,4,6-Tribromophenol	63		10-136
4-Terphenyl-d14	65		18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-33
Client ID: FROG-SS-115 (7.5-9.5)
Sample Location: CARLISLE, PA

Date Collected: 10/17/25 10:45
Date Received: 10/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/21/25 20:37
Analyst: SMZ
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 10/19/25 23:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.27	0.055	1
Phenol	ND		mg/kg	0.20	0.031	1
Bis(2-chloroethyl)ether	ND		mg/kg	0.041	0.015	1
2-Chlorophenol	ND		mg/kg	0.20	0.024	1
2-Methylphenol	ND		mg/kg	0.20	0.032	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.24	0.035	1
Acetophenone	ND		mg/kg	0.20	0.025	1
1,4-Dioxane	ND		mg/kg	0.031	0.0093	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.041	0.020	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.29	0.032	1
Hexachloroethane	ND		mg/kg	0.16	0.033	1
Nitrobenzene	ND		mg/kg	0.18	0.030	1
Isophorone	ND		mg/kg	0.18	0.026	1
2-Nitrophenol	ND		mg/kg	0.44	0.077	1
2,4-Dimethylphenol	ND		mg/kg	0.20	0.067	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.22	0.020	1
2,4-Dichlorophenol	ND		mg/kg	0.18	0.033	1
Naphthalene	ND		mg/kg	0.041	0.025	1
4-Chloroaniline	ND		mg/kg	0.20	0.037	1
Hexachlorobutadiene	ND		mg/kg	0.20	0.030	1
Caprolactam	ND		mg/kg	0.20	0.062	1
p-Chloro-m-cresol	ND		mg/kg	0.20	0.030	1
2-Methylnaphthalene	ND		mg/kg	0.24	0.025	1
Hexachlorocyclopentadiene	ND		mg/kg	0.58	0.18	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.20	0.021	1
2,4,6-Trichlorophenol	ND		mg/kg	0.12	0.039	1
2,4,5-Trichlorophenol	ND		mg/kg	0.20	0.039	1
Biphenyl	ND		mg/kg	0.46	0.026	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-33 Date Collected: 10/17/25 10:45

Client ID: FROG-SS-115 (7.5-9.5) Date Received: 10/17/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chloronaphthalene	ND		mg/kg	0.20	0.020	1
2-Nitroaniline	ND		mg/kg	0.20	0.039	1
Dimethyl phthalate	ND		mg/kg	0.20	0.043	1
2,6-Dinitrotoluene	ND		mg/kg	0.20	0.035	1
Acenaphthylene	ND		mg/kg	0.16	0.032	1
3-Nitroaniline	ND		mg/kg	0.20	0.038	1
Acenaphthene	ND		mg/kg	0.16	0.021	1
2,4-Dinitrophenol	ND		mg/kg	0.98	0.095	1
4-Nitrophenol	ND		mg/kg	0.28	0.083	1
2,4-Dinitrotoluene	ND		mg/kg	0.20	0.041	1
Dibenzofuran	ND		mg/kg	0.20	0.019	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.20	0.041	1
Diethyl phthalate	ND		mg/kg	0.20	0.019	1
Fluorene	ND		mg/kg	0.20	0.020	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.20	0.022	1
4-Nitroaniline	ND		mg/kg	0.20	0.084	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.53	0.098	1
NDPA/DPA	ND		mg/kg	0.16	0.023	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.20	0.031	1
Hexachlorobenzene	ND		mg/kg	0.12	0.023	1
Pentachlorophenol	ND		mg/kg	0.16	0.045	1
Atrazine	ND		mg/kg	0.16	0.071	1
Phenanthrene	ND		mg/kg	0.12	0.025	1
Anthracene	ND		mg/kg	0.12	0.040	1
Carbazole	ND		mg/kg	0.20	0.020	1
Di-n-butylphthalate	ND		mg/kg	0.20	0.039	1
Fluoranthene	ND		mg/kg	0.12	0.023	1
Pyrene	ND		mg/kg	0.12	0.020	1
Butyl benzyl phthalate	ND		mg/kg	0.20	0.051	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.20	0.054	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.023	1
Chrysene	ND		mg/kg	0.12	0.021	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.20	0.071	1
Di-n-octylphthalate	ND		mg/kg	0.20	0.069	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.034	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.033	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.050	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-33 Date Collected: 10/17/25 10:45

Client ID: FROG-SS-115 (7.5-9.5) Date Received: 10/17/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.028	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.024	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.024	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		25-120
Phenol-d6	69		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	67		30-120
2,4,6-Tribromophenol	61		10-136
4-Terphenyl-d14	57		18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-34
Client ID: FROG-SS-116 (0-2)
Sample Location: CARLISLE, PA
Date Collected: 10/17/25 09:42
Date Received: 10/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/21/25 21:01
Analyst: SMZ
Percent Solids: 92%
Extraction Method: EPA 3546
Extraction Date: 10/19/25 23:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.23	0.048	1
Phenol	ND		mg/kg	0.18	0.027	1
Bis(2-chloroethyl)ether	ND		mg/kg	0.035	0.013	1
2-Chlorophenol	ND		mg/kg	0.18	0.021	1
2-Methylphenol	ND		mg/kg	0.18	0.027	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.21	0.030	1
Acetophenone	ND		mg/kg	0.18	0.022	1
1,4-Dioxane	ND		mg/kg	0.026	0.0080	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.035	0.017	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.25	0.028	1
Hexachloroethane	ND		mg/kg	0.14	0.028	1
Nitrobenzene	ND		mg/kg	0.16	0.026	1
Isophorone	ND		mg/kg	0.16	0.023	1
2-Nitrophenol	ND		mg/kg	0.38	0.066	1
2,4-Dimethylphenol	ND		mg/kg	0.18	0.058	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.19	0.018	1
2,4-Dichlorophenol	ND		mg/kg	0.16	0.028	1
Naphthalene	0.059		mg/kg	0.035	0.021	1
4-Chloroaniline	ND		mg/kg	0.18	0.032	1
Hexachlorobutadiene	ND		mg/kg	0.18	0.026	1
Caprolactam	ND		mg/kg	0.18	0.054	1
p-Chloro-m-cresol	ND		mg/kg	0.18	0.026	1
2-Methylnaphthalene	0.13	J	mg/kg	0.21	0.021	1
Hexachlorocyclopentadiene	ND		mg/kg	0.50	0.16	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.18	0.018	1
2,4,6-Trichlorophenol	ND		mg/kg	0.10	0.033	1
2,4,5-Trichlorophenol	ND		mg/kg	0.18	0.034	1
Biphenyl	0.023	J	mg/kg	0.40	0.023	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-34 Date Collected: 10/17/25 09:42

Client ID: FROG-SS-116 (0-2) Date Received: 10/17/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chloronaphthalene	ND		mg/kg	0.18	0.017	1
2-Nitroaniline	ND		mg/kg	0.18	0.034	1
Dimethyl phthalate	ND		mg/kg	0.18	0.037	1
2,6-Dinitrotoluene	ND		mg/kg	0.18	0.030	1
Acenaphthylene	ND		mg/kg	0.14	0.027	1
3-Nitroaniline	ND		mg/kg	0.18	0.033	1
Acenaphthene	0.024	J	mg/kg	0.14	0.018	1
2,4-Dinitrophenol	ND		mg/kg	0.84	0.082	1
4-Nitrophenol	ND		mg/kg	0.25	0.072	1
2,4-Dinitrotoluene	ND		mg/kg	0.18	0.035	1
Dibenzofuran	0.033	J	mg/kg	0.18	0.017	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.18	0.036	1
Diethyl phthalate	ND		mg/kg	0.18	0.016	1
Fluorene	0.020	J	mg/kg	0.18	0.017	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.18	0.019	1
4-Nitroaniline	ND		mg/kg	0.18	0.073	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.46	0.084	1
NDPA/DPA	ND		mg/kg	0.14	0.020	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.18	0.027	1
Hexachlorobenzene	ND		mg/kg	0.10	0.020	1
Pentachlorophenol	ND		mg/kg	0.14	0.039	1
Atrazine	ND		mg/kg	0.14	0.062	1
Phenanthrene	0.15		mg/kg	0.10	0.021	1
Anthracene	0.042	J	mg/kg	0.10	0.034	1
Carbazole	0.026	J	mg/kg	0.18	0.017	1
Di-n-butylphthalate	ND		mg/kg	0.18	0.033	1
Fluoranthene	0.22		mg/kg	0.10	0.020	1
Pyrene	0.18		mg/kg	0.10	0.018	1
Butyl benzyl phthalate	ND		mg/kg	0.18	0.044	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.18	0.047	1
Benzo(a)anthracene	0.11		mg/kg	0.10	0.020	1
Chrysene	0.10		mg/kg	0.10	0.018	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.18	0.061	1
Di-n-octylphthalate	ND		mg/kg	0.18	0.060	1
Benzo(b)fluoranthene	0.14		mg/kg	0.10	0.030	1
Benzo(k)fluoranthene	0.053	J	mg/kg	0.10	0.028	1
Benzo(a)pyrene	0.12	J	mg/kg	0.14	0.043	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-34 Date Collected: 10/17/25 09:42

Client ID: FROG-SS-116 (0-2) Date Received: 10/17/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Indeno(1,2,3-cd)pyrene	0.080	J	mg/kg	0.14	0.024	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.10	0.020	1
Benzo(ghi)perylene	0.073	J	mg/kg	0.14	0.021	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	52		25-120
Phenol-d6	58		10-120
Nitrobenzene-d5	62		23-120
2-Fluorobiphenyl	60		30-120
2,4,6-Tribromophenol	65		10-136
4-Terphenyl-d14	53		18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-35
Client ID: FROG-SS-116 (18.5-20.5)
Sample Location: CARLISLE, PA
Date Collected: 10/17/25 09:44
Date Received: 10/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/21/25 21:24
Analyst: SMZ
Percent Solids: 81%
Extraction Method: EPA 3546
Extraction Date: 10/19/25 23:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.27	0.054	1
Phenol	ND		mg/kg	0.20	0.030	1
Bis(2-chloroethyl)ether	ND		mg/kg	0.040	0.015	1
2-Chlorophenol	ND		mg/kg	0.20	0.024	1
2-Methylphenol	ND		mg/kg	0.20	0.031	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.24	0.034	1
Acetophenone	ND		mg/kg	0.20	0.025	1
1,4-Dioxane	ND		mg/kg	0.030	0.0092	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.040	0.019	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.29	0.032	1
Hexachloroethane	ND		mg/kg	0.16	0.033	1
Nitrobenzene	ND		mg/kg	0.18	0.030	1
Isophorone	ND		mg/kg	0.18	0.026	1
2-Nitrophenol	ND		mg/kg	0.44	0.076	1
2,4-Dimethylphenol	ND		mg/kg	0.20	0.067	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.22	0.020	1
2,4-Dichlorophenol	ND		mg/kg	0.18	0.032	1
Naphthalene	0.14		mg/kg	0.040	0.025	1
4-Chloroaniline	ND		mg/kg	0.20	0.037	1
Hexachlorobutadiene	ND		mg/kg	0.20	0.030	1
Caprolactam	ND		mg/kg	0.20	0.061	1
p-Chloro-m-cresol	ND		mg/kg	0.20	0.030	1
2-Methylnaphthalene	0.13	J	mg/kg	0.24	0.024	1
Hexachlorocyclopentadiene	ND		mg/kg	0.58	0.18	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.20	0.021	1
2,4,6-Trichlorophenol	ND		mg/kg	0.12	0.038	1
2,4,5-Trichlorophenol	ND		mg/kg	0.20	0.039	1
Biphenyl	ND		mg/kg	0.46	0.026	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-35 Date Collected: 10/17/25 09:44

Client ID: FROG-SS-116 (18.5-20.5) Date Received: 10/17/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chloronaphthalene	ND		mg/kg	0.20	0.020	1
2-Nitroaniline	ND		mg/kg	0.20	0.039	1
Dimethyl phthalate	ND		mg/kg	0.20	0.042	1
2,6-Dinitrotoluene	ND		mg/kg	0.20	0.035	1
Acenaphthylene	ND		mg/kg	0.16	0.031	1
3-Nitroaniline	ND		mg/kg	0.20	0.038	1
Acenaphthene	0.027	J	mg/kg	0.16	0.021	1
2,4-Dinitrophenol	ND		mg/kg	0.97	0.094	1
4-Nitrophenol	ND		mg/kg	0.28	0.082	1
2,4-Dinitrotoluene	ND		mg/kg	0.20	0.040	1
Dibenzofuran	ND		mg/kg	0.20	0.019	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.20	0.041	1
Diethyl phthalate	ND		mg/kg	0.20	0.019	1
Fluorene	ND		mg/kg	0.20	0.020	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.20	0.022	1
4-Nitroaniline	ND		mg/kg	0.20	0.084	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.52	0.097	1
NDPA/DPA	ND		mg/kg	0.16	0.023	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.20	0.031	1
Hexachlorobenzene	ND		mg/kg	0.12	0.023	1
Pentachlorophenol	ND		mg/kg	0.16	0.044	1
Atrazine	ND		mg/kg	0.16	0.071	1
Phenanthrene	ND		mg/kg	0.12	0.024	1
Anthracene	ND		mg/kg	0.12	0.039	1
Carbazole	ND		mg/kg	0.20	0.020	1
Di-n-butylphthalate	ND		mg/kg	0.20	0.038	1
Fluoranthene	ND		mg/kg	0.12	0.023	1
Pyrene	ND		mg/kg	0.12	0.020	1
Butyl benzyl phthalate	ND		mg/kg	0.20	0.051	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.20	0.054	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.023	1
Chrysene	ND		mg/kg	0.12	0.021	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.20	0.070	1
Di-n-octylphthalate	ND		mg/kg	0.20	0.069	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.034	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.032	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.049	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-35 Date Collected: 10/17/25 09:44

Client ID: FROG-SS-116 (18.5-20.5) Date Received: 10/17/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.028	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.023	1
Benzo(ghi)perylene	0.031	J	mg/kg	0.16	0.024	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		25-120
Phenol-d6	67		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	65		30-120
2,4,6-Tribromophenol	63		10-136
4-Terphenyl-d14	60		18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-36
Client ID: FROG-SS-117 (0-2)
Sample Location: CARLISLE, PA
Date Collected: 10/17/25 08:14
Date Received: 10/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/21/25 22:34
Analyst: SMZ
Percent Solids: 95%
Extraction Method: EPA 3546
Extraction Date: 10/19/25 23:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.23	0.047	1
Phenol	ND		mg/kg	0.17	0.026	1
Bis(2-chloroethyl)ether	ND		mg/kg	0.035	0.013	1
2-Chlorophenol	ND		mg/kg	0.17	0.020	1
2-Methylphenol	ND		mg/kg	0.17	0.027	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.21	0.030	1
Acetophenone	ND		mg/kg	0.17	0.022	1
1,4-Dioxane	ND		mg/kg	0.026	0.0079	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.035	0.017	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.25	0.027	1
Hexachloroethane	ND		mg/kg	0.14	0.028	1
Nitrobenzene	ND		mg/kg	0.16	0.026	1
Isophorone	ND		mg/kg	0.16	0.022	1
2-Nitrophenol	ND		mg/kg	0.38	0.065	1
2,4-Dimethylphenol	ND		mg/kg	0.17	0.057	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.19	0.017	1
2,4-Dichlorophenol	ND		mg/kg	0.16	0.028	1
Naphthalene	ND		mg/kg	0.035	0.021	1
4-Chloroaniline	ND		mg/kg	0.17	0.032	1
Hexachlorobutadiene	ND		mg/kg	0.17	0.025	1
Caprolactam	ND		mg/kg	0.17	0.053	1
p-Chloro-m-cresol	ND		mg/kg	0.17	0.026	1
2-Methylnaphthalene	ND		mg/kg	0.21	0.021	1
Hexachlorocyclopentadiene	ND		mg/kg	0.50	0.16	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.17	0.018	1
2,4,6-Trichlorophenol	ND		mg/kg	0.10	0.033	1
2,4,5-Trichlorophenol	ND		mg/kg	0.17	0.033	1
Biphenyl	ND		mg/kg	0.40	0.023	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-36 Date Collected: 10/17/25 08:14

Client ID: FROG-SS-117 (0-2) Date Received: 10/17/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chloronaphthalene	ND		mg/kg	0.17	0.017	1
2-Nitroaniline	ND		mg/kg	0.17	0.034	1
Dimethyl phthalate	ND		mg/kg	0.17	0.036	1
2,6-Dinitrotoluene	ND		mg/kg	0.17	0.030	1
Acenaphthylene	ND		mg/kg	0.14	0.027	1
3-Nitroaniline	ND		mg/kg	0.17	0.033	1
Acenaphthene	ND		mg/kg	0.14	0.018	1
2,4-Dinitrophenol	ND		mg/kg	0.83	0.081	1
4-Nitrophenol	ND		mg/kg	0.24	0.071	1
2,4-Dinitrotoluene	ND		mg/kg	0.17	0.035	1
Dibenzofuran	ND		mg/kg	0.17	0.016	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.17	0.035	1
Diethyl phthalate	ND		mg/kg	0.17	0.016	1
Fluorene	ND		mg/kg	0.17	0.017	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.17	0.019	1
4-Nitroaniline	ND		mg/kg	0.17	0.072	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.45	0.083	1
NDPA/DPA	ND		mg/kg	0.14	0.020	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.17	0.026	1
Hexachlorobenzene	ND		mg/kg	0.10	0.019	1
Pentachlorophenol	ND		mg/kg	0.14	0.038	1
Atrazine	ND		mg/kg	0.14	0.061	1
Phenanthrene	0.070	J	mg/kg	0.10	0.021	1
Anthracene	ND		mg/kg	0.10	0.034	1
Carbazole	0.021	J	mg/kg	0.17	0.017	1
Di-n-butylphthalate	ND		mg/kg	0.17	0.033	1
Fluoranthene	0.12		mg/kg	0.10	0.020	1
Pyrene	0.11		mg/kg	0.10	0.017	1
Butyl benzyl phthalate	ND		mg/kg	0.17	0.044	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.17	0.046	1
Benzo(a)anthracene	0.065	J	mg/kg	0.10	0.020	1
Chrysene	0.070	J	mg/kg	0.10	0.018	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.17	0.060	1
Di-n-octylphthalate	ND		mg/kg	0.17	0.059	1
Benzo(b)fluoranthene	0.088	J	mg/kg	0.10	0.029	1
Benzo(k)fluoranthene	ND		mg/kg	0.10	0.028	1
Benzo(a)pyrene	0.064	J	mg/kg	0.14	0.042	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-36 Date Collected: 10/17/25 08:14

Client ID: FROG-SS-117 (0-2) Date Received: 10/17/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Indeno(1,2,3-cd)pyrene	0.045	J	mg/kg	0.14	0.024	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.10	0.020	1
Benzo(ghi)perylene	0.044	J	mg/kg	0.14	0.020	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		25-120
Phenol-d6	68		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	66		30-120
2,4,6-Tribromophenol	67		10-136
4-Terphenyl-d14	59		18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-37
Client ID: FROG-SS-117 (11-13)
Sample Location: CARLISLE, PA

Date Collected: 10/17/25 08:22
Date Received: 10/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/21/25 22:57
Analyst: SMZ
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 10/19/25 23:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.25	0.051	1
Phenol	ND		mg/kg	0.19	0.028	1
Bis(2-chloroethyl)ether	ND		mg/kg	0.038	0.014	1
2-Chlorophenol	ND		mg/kg	0.19	0.022	1
2-Methylphenol	ND		mg/kg	0.19	0.029	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.23	0.032	1
Acetophenone	ND		mg/kg	0.19	0.023	1
1,4-Dioxane	ND		mg/kg	0.028	0.0086	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.038	0.018	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.27	0.030	1
Hexachloroethane	ND		mg/kg	0.15	0.030	1
Nitrobenzene	ND		mg/kg	0.17	0.028	1
Isophorone	ND		mg/kg	0.17	0.024	1
2-Nitrophenol	ND		mg/kg	0.41	0.071	1
2,4-Dimethylphenol	ND		mg/kg	0.19	0.062	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.20	0.019	1
2,4-Dichlorophenol	ND		mg/kg	0.17	0.030	1
Naphthalene	ND		mg/kg	0.038	0.023	1
4-Chloroaniline	ND		mg/kg	0.19	0.034	1
Hexachlorobutadiene	ND		mg/kg	0.19	0.028	1
Caprolactam	ND		mg/kg	0.19	0.057	1
p-Chloro-m-cresol	ND		mg/kg	0.19	0.028	1
2-Methylnaphthalene	ND		mg/kg	0.23	0.023	1
Hexachlorocyclopentadiene	ND		mg/kg	0.54	0.17	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.19	0.020	1
2,4,6-Trichlorophenol	ND		mg/kg	0.11	0.036	1
2,4,5-Trichlorophenol	ND		mg/kg	0.19	0.036	1
Biphenyl	ND		mg/kg	0.43	0.024	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-37 Date Collected: 10/17/25 08:22

Client ID: FROG-SS-117 (11-13) Date Received: 10/17/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chloronaphthalene	ND		mg/kg	0.19	0.019	1
2-Nitroaniline	ND		mg/kg	0.19	0.036	1
Dimethyl phthalate	ND		mg/kg	0.19	0.040	1
2,6-Dinitrotoluene	ND		mg/kg	0.19	0.032	1
Acenaphthylene	ND		mg/kg	0.15	0.029	1
3-Nitroaniline	ND		mg/kg	0.19	0.036	1
Acenaphthene	ND		mg/kg	0.15	0.020	1
2,4-Dinitrophenol	ND		mg/kg	0.90	0.088	1
4-Nitrophenol	ND		mg/kg	0.26	0.077	1
2,4-Dinitrotoluene	ND		mg/kg	0.19	0.038	1
Dibenzofuran	ND		mg/kg	0.19	0.018	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.19	0.038	1
Diethyl phthalate	ND		mg/kg	0.19	0.017	1
Fluorene	ND		mg/kg	0.19	0.018	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.19	0.020	1
4-Nitroaniline	ND		mg/kg	0.19	0.078	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.49	0.090	1
NDPA/DPA	ND		mg/kg	0.15	0.021	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.19	0.029	1
Hexachlorobenzene	ND		mg/kg	0.11	0.021	1
Pentachlorophenol	ND		mg/kg	0.15	0.041	1
Atrazine	ND		mg/kg	0.15	0.066	1
Phenanthrene	0.057	J	mg/kg	0.11	0.023	1
Anthracene	ND		mg/kg	0.11	0.037	1
Carbazole	ND		mg/kg	0.19	0.018	1
Di-n-butylphthalate	ND		mg/kg	0.19	0.036	1
Fluoranthene	0.049	J	mg/kg	0.11	0.022	1
Pyrene	0.040	J	mg/kg	0.11	0.019	1
Butyl benzyl phthalate	ND		mg/kg	0.19	0.048	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.19	0.050	1
Benzo(a)anthracene	0.024	J	mg/kg	0.11	0.021	1
Chrysene	0.021	J	mg/kg	0.11	0.020	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.19	0.065	1
Di-n-octylphthalate	ND		mg/kg	0.19	0.064	1
Benzo(b)fluoranthene	ND		mg/kg	0.11	0.032	1
Benzo(k)fluoranthene	ND		mg/kg	0.11	0.030	1
Benzo(a)pyrene	ND		mg/kg	0.15	0.046	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-37 Date Collected: 10/17/25 08:22

Client ID: FROG-SS-117 (11-13) Date Received: 10/17/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.15	0.026	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.11	0.022	1
Benzo(ghi)perylene	ND		mg/kg	0.15	0.022	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	50		25-120
Phenol-d6	55		10-120
Nitrobenzene-d5	55		23-120
2-Fluorobiphenyl	57		30-120
2,4,6-Tribromophenol	61		10-136
4-Terphenyl-d14	57		18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-38
Client ID: FROG-SS-DUP-103
Sample Location: CARLISLE, PA
Date Collected: 10/17/25 00:00
Date Received: 10/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/21/25 23:21
Analyst: SMZ
Percent Solids: 95%
Extraction Method: EPA 3546
Extraction Date: 10/19/25 23:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.23	0.047	1
Phenol	ND		mg/kg	0.17	0.026	1
Bis(2-chloroethyl)ether	ND		mg/kg	0.034	0.013	1
2-Chlorophenol	ND		mg/kg	0.17	0.020	1
2-Methylphenol	ND		mg/kg	0.17	0.027	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.21	0.030	1
Acetophenone	ND		mg/kg	0.17	0.021	1
1,4-Dioxane	ND		mg/kg	0.026	0.0079	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.034	0.016	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.25	0.027	1
Hexachloroethane	ND		mg/kg	0.14	0.028	1
Nitrobenzene	ND		mg/kg	0.16	0.026	1
Isophorone	ND		mg/kg	0.16	0.022	1
2-Nitrophenol	ND		mg/kg	0.37	0.065	1
2,4-Dimethylphenol	ND		mg/kg	0.17	0.057	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.19	0.017	1
2,4-Dichlorophenol	ND		mg/kg	0.16	0.028	1
Naphthalene	0.035		mg/kg	0.034	0.021	1
4-Chloroaniline	ND		mg/kg	0.17	0.031	1
Hexachlorobutadiene	ND		mg/kg	0.17	0.025	1
Caprolactam	ND		mg/kg	0.17	0.052	1
p-Chloro-m-cresol	ND		mg/kg	0.17	0.026	1
2-Methylnaphthalene	0.045	J	mg/kg	0.21	0.021	1
Hexachlorocyclopentadiene	ND		mg/kg	0.49	0.16	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.17	0.018	1
2,4,6-Trichlorophenol	ND		mg/kg	0.10	0.033	1
2,4,5-Trichlorophenol	ND		mg/kg	0.17	0.033	1
Biphenyl	ND		mg/kg	0.39	0.022	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-38 Date Collected: 10/17/25 00:00

Client ID: FROG-SS-DUP-103 Date Received: 10/17/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chloronaphthalene	ND		mg/kg	0.17	0.017	1
2-Nitroaniline	ND		mg/kg	0.17	0.033	1
Dimethyl phthalate	ND		mg/kg	0.17	0.036	1
2,6-Dinitrotoluene	ND		mg/kg	0.17	0.030	1
Acenaphthylene	ND		mg/kg	0.14	0.027	1
3-Nitroaniline	ND		mg/kg	0.17	0.032	1
Acenaphthene	ND		mg/kg	0.14	0.018	1
2,4-Dinitrophenol	ND		mg/kg	0.83	0.080	1
4-Nitrophenol	ND		mg/kg	0.24	0.070	1
2,4-Dinitrotoluene	ND		mg/kg	0.17	0.034	1
Dibenzofuran	0.016	J	mg/kg	0.17	0.016	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.17	0.035	1
Diethyl phthalate	ND		mg/kg	0.17	0.016	1
Fluorene	ND		mg/kg	0.17	0.017	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.17	0.018	1
4-Nitroaniline	ND		mg/kg	0.17	0.072	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.45	0.083	1
NDPA/DPA	ND		mg/kg	0.14	0.020	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.17	0.026	1
Hexachlorobenzene	ND		mg/kg	0.10	0.019	1
Pentachlorophenol	ND		mg/kg	0.14	0.038	1
Atrazine	ND		mg/kg	0.14	0.060	1
Phenanthrene	0.087	J	mg/kg	0.10	0.021	1
Anthracene	ND		mg/kg	0.10	0.034	1
Carbazole	ND		mg/kg	0.17	0.017	1
Di-n-butylphthalate	ND		mg/kg	0.17	0.033	1
Fluoranthene	0.12		mg/kg	0.10	0.020	1
Pyrene	0.12		mg/kg	0.10	0.017	1
Butyl benzyl phthalate	ND		mg/kg	0.17	0.044	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.17	0.046	1
Benzo(a)anthracene	0.065	J	mg/kg	0.10	0.019	1
Chrysene	0.078	J	mg/kg	0.10	0.018	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.17	0.060	1
Di-n-octylphthalate	ND		mg/kg	0.17	0.059	1
Benzo(b)fluoranthene	0.096	J	mg/kg	0.10	0.029	1
Benzo(k)fluoranthene	ND		mg/kg	0.10	0.028	1
Benzo(a)pyrene	0.067	J	mg/kg	0.14	0.042	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-38 Date Collected: 10/17/25 00:00

Client ID: FROG-SS-DUP-103 Date Received: 10/17/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Indeno(1,2,3-cd)pyrene	0.050	J	mg/kg	0.14	0.024	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.10	0.020	1
Benzo(ghi)perylene	0.050	J	mg/kg	0.14	0.020	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	54		25-120
Phenol-d6	58		10-120
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	66		30-120
2,4,6-Tribromophenol	64		10-136
4-Terphenyl-d14	58		18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-39
Client ID: FROG-SS-FB-103
Sample Location: CARLISLE, PA
Date Collected: 10/17/25 12:10
Date Received: 10/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 10/21/25 21:14
Analyst: ALS
Extraction Method: EPA 3510C
Extraction Date: 10/20/25 11:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		ug/l	5.0	1.1	1
Phenol	ND		ug/l	5.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.65	1
2-Methylphenol	ND		ug/l	5.0	2.3	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.40	1
Acetophenone	ND		ug/l	5.0	0.92	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.4	1
Nitrobenzene	ND		ug/l	1.4	0.20	1
Isophorone	ND		ug/l	5.0	0.86	1
2-Nitrophenol	ND		ug/l	5.0	2.0	1
2,4-Dimethylphenol	ND		ug/l	5.0	2.0	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.84	1
2,4-Dichlorophenol	ND		ug/l	5.0	1.7	1
Naphthalene	ND		ug/l	2.0	0.54	1
4-Chloroaniline	ND		ug/l	3.7	0.47	1
Hexachlorobutadiene	ND		ug/l	2.0	0.36	1
Caprolactam	ND		ug/l	10	1.2	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.61	1
2-Methylnaphthalene	ND		ug/l	2.0	0.37	1
Hexachlorocyclopentadiene	ND		ug/l	20	1.2	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	1.7	0.24	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	2.1	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	2.1	1
Biphenyl	ND		ug/l	2.0	0.20	1
2-Chloronaphthalene	ND		ug/l	2.0	0.35	1
2-Nitroaniline	ND		ug/l	5.0	1.0	1
Dimethyl phthalate	ND		ug/l	5.0	0.92	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.84	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-39 Date Collected: 10/17/25 12:10

Client ID: FROG-SS-FB-103 Date Received: 10/17/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthylene	ND		ug/l	2.0	0.32	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
Acenaphthene	ND		ug/l	2.0	0.40	1
2,4-Dinitrophenol	ND		ug/l	20	5.4	1
4-Nitrophenol	ND		ug/l	10	1.4	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.54	1
Dibenzofuran	ND		ug/l	2.0	0.40	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	2.2	1
Diethyl phthalate	ND		ug/l	5.0	0.76	1
Fluorene	ND		ug/l	2.0	0.44	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.39	1
4-Nitroaniline	ND		ug/l	5.0	1.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.3	1
NDPA/DPA	ND		ug/l	2.0	0.92	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.24	1
Atrazine	ND		ug/l	3.0	1.0	1
Phenanthrene	ND		ug/l	2.0	0.42	1
Anthracene	ND		ug/l	2.0	0.47	1
Carbazole	ND		ug/l	2.0	0.31	1
Di-n-butylphthalate	ND		ug/l	5.0	0.96	1
Fluoranthene	ND		ug/l	2.0	0.41	1
Pyrene	ND		ug/l	2.0	0.41	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.6	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.8	1
Chrysene	ND		ug/l	1.5	0.22	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	1.4	1
Di-n-octylphthalate	ND		ug/l	5.0	2.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	41		21-120
Phenol-d6	31		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	78		15-120
2,4,6-Tribromophenol	67		10-120
4-Terphenyl-d14	83		41-149

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-44 D
Client ID: FROG-SS-119 (0-0.5)
Sample Location: CARLISLE, PA

Date Collected: 10/20/25 14:00
Date Received: 10/20/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/28/25 05:35
Analyst: JG
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 10/27/25 13:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	1.2	0.24	5
Phenol	ND		mg/kg	0.90	0.14	5
Bis(2-chloroethyl)ether	ND		mg/kg	0.18	0.067	5
2-Chlorophenol	ND		mg/kg	0.90	0.11	5
2-Methylphenol	ND		mg/kg	0.90	0.14	5
Bis(2-chloroisopropyl)ether	ND		mg/kg	1.1	0.15	5
Acetophenone	ND		mg/kg	0.90	0.11	5
1,4-Dioxane	ND		mg/kg	0.14	0.041	5
n-Nitrosodi-n-propylamine	ND		mg/kg	0.18	0.086	5
3-Methylphenol/4-Methylphenol	ND		mg/kg	1.3	0.14	5
Hexachloroethane	ND		mg/kg	0.72	0.14	5
Nitrobenzene	ND		mg/kg	0.81	0.13	5
Isophorone	ND		mg/kg	0.81	0.12	5
2-Nitrophenol	ND		mg/kg	1.9	0.34	5
2,4-Dimethylphenol	ND		mg/kg	0.90	0.30	5
Bis(2-chloroethoxy)methane	ND		mg/kg	0.97	0.090	5
2,4-Dichlorophenol	ND		mg/kg	0.81	0.14	5
Naphthalene	ND		mg/kg	0.18	0.11	5
4-Chloroaniline	ND		mg/kg	0.90	0.16	5
Hexachlorobutadiene	ND		mg/kg	0.90	0.13	5
Caprolactam	ND		mg/kg	0.90	0.27	5
p-Chloro-m-cresol	ND		mg/kg	0.90	0.13	5
2-Methylnaphthalene	ND		mg/kg	1.1	0.11	5
Hexachlorocyclopentadiene	ND		mg/kg	2.6	0.82	5
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.90	0.094	5
2,4,6-Trichlorophenol	ND		mg/kg	0.54	0.17	5
2,4,5-Trichlorophenol	ND		mg/kg	0.90	0.17	5
Biphenyl	ND		mg/kg	2.0	0.12	5

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-44 D
Client ID: FROG-SS-119 (0-0.5)
Sample Location: CARLISLE, PA

Date Collected: 10/20/25 14:00
Date Received: 10/20/25
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chloronaphthalene	ND		mg/kg	0.90	0.089	5
2-Nitroaniline	ND		mg/kg	0.90	0.17	5
Dimethyl phthalate	ND		mg/kg	0.90	0.19	5
2,6-Dinitrotoluene	ND		mg/kg	0.90	0.15	5
Acenaphthylene	ND		mg/kg	0.72	0.14	5
3-Nitroaniline	ND		mg/kg	0.90	0.17	5
Acenaphthene	ND		mg/kg	0.72	0.093	5
2,4-Dinitrophenol	ND		mg/kg	4.3	0.42	5
4-Nitrophenol	ND		mg/kg	1.3	0.37	5
2,4-Dinitrotoluene	ND		mg/kg	0.90	0.18	5
Dibenzofuran	ND		mg/kg	0.90	0.085	5
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.90	0.18	5
Diethyl phthalate	ND		mg/kg	0.90	0.084	5
Fluorene	ND		mg/kg	0.90	0.088	5
4-Chlorophenyl phenyl ether	ND		mg/kg	0.90	0.096	5
4-Nitroaniline	ND		mg/kg	0.90	0.37	5
4,6-Dinitro-o-cresol	ND		mg/kg	2.3	0.43	5
NDPA/DPA	ND		mg/kg	0.72	0.10	5
4-Bromophenyl phenyl ether	ND		mg/kg	0.90	0.14	5
Hexachlorobenzene	ND		mg/kg	0.54	0.10	5
Pentachlorophenol	ND		mg/kg	0.72	0.20	5
Atrazine	ND		mg/kg	0.72	0.32	5
Phenanthrene	0.13	J	mg/kg	0.54	0.11	5
Anthracene	ND		mg/kg	0.54	0.18	5
Carbazole	ND		mg/kg	0.90	0.088	5
Di-n-butylphthalate	ND		mg/kg	0.90	0.17	5
Fluoranthene	0.23	J	mg/kg	0.54	0.10	5
Pyrene	0.22	J	mg/kg	0.54	0.090	5
Butyl benzyl phthalate	0.64	J	mg/kg	0.90	0.23	5
3,3'-Dichlorobenzidine	ND		mg/kg	0.90	0.24	5
Benzo(a)anthracene	0.15	J	mg/kg	0.54	0.10	5
Chrysene	0.18	J	mg/kg	0.54	0.094	5
Bis(2-ethylhexyl)phthalate	0.69	J	mg/kg	0.90	0.31	5
Di-n-octylphthalate	0.81	J	mg/kg	0.90	0.31	5
Benzo(b)fluoranthene	0.31	J	mg/kg	0.54	0.15	5
Benzo(k)fluoranthene	ND		mg/kg	0.54	0.14	5
Benzo(a)pyrene	ND		mg/kg	0.72	0.22	5

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-44 D
Client ID: FROG-SS-119 (0-0.5)
Sample Location: CARLISLE, PA

Date Collected: 10/20/25 14:00
Date Received: 10/20/25
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Indeno(1,2,3-cd)pyrene	0.16	J	mg/kg	0.72	0.12	5
Dibenzo(a,h)anthracene	ND		mg/kg	0.54	0.10	5
Benzo(ghi)perylene	0.23	J	mg/kg	0.72	0.11	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	52		25-120
Phenol-d6	53		10-120
Nitrobenzene-d5	53		23-120
2-Fluorobiphenyl	56		30-120
2,4,6-Tribromophenol	66		10-136
4-Terphenyl-d14	51		18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-45
Client ID: FROG-SS-122 (1.5-3.5)
Sample Location: CARLISLE, PA

Date Collected: 10/20/25 10:45
Date Received: 10/20/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/28/25 03:44
Analyst: JG
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 10/27/25 13:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.26	0.052	1
Phenol	ND		mg/kg	0.19	0.029	1
Bis(2-chloroethyl)ether	ND		mg/kg	0.039	0.014	1
2-Chlorophenol	ND		mg/kg	0.19	0.023	1
2-Methylphenol	ND		mg/kg	0.19	0.030	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.23	0.033	1
Acetophenone	ND		mg/kg	0.19	0.024	1
1,4-Dioxane	ND		mg/kg	0.029	0.0088	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.039	0.018	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.28	0.030	1
Hexachloroethane	ND		mg/kg	0.16	0.031	1
Nitrobenzene	ND		mg/kg	0.17	0.029	1
Isophorone	ND		mg/kg	0.17	0.025	1
2-Nitrophenol	ND		mg/kg	0.42	0.073	1
2,4-Dimethylphenol	ND		mg/kg	0.19	0.064	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.21	0.019	1
2,4-Dichlorophenol	ND		mg/kg	0.17	0.031	1
Naphthalene	ND		mg/kg	0.039	0.024	1
4-Chloroaniline	ND		mg/kg	0.19	0.035	1
Hexachlorobutadiene	ND		mg/kg	0.19	0.028	1
Caprolactam	ND		mg/kg	0.19	0.059	1
p-Chloro-m-cresol	ND		mg/kg	0.19	0.029	1
2-Methylnaphthalene	ND		mg/kg	0.23	0.023	1
Hexachlorocyclopentadiene	ND		mg/kg	0.55	0.18	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.19	0.020	1
2,4,6-Trichlorophenol	ND		mg/kg	0.12	0.037	1
2,4,5-Trichlorophenol	ND		mg/kg	0.19	0.037	1
Biphenyl	ND		mg/kg	0.44	0.025	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-45 Date Collected: 10/20/25 10:45

Client ID: FROG-SS-122 (1.5-3.5) Date Received: 10/20/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chloronaphthalene	ND		mg/kg	0.19	0.019	1
2-Nitroaniline	ND		mg/kg	0.19	0.037	1
Dimethyl phthalate	ND		mg/kg	0.19	0.041	1
2,6-Dinitrotoluene	ND		mg/kg	0.19	0.033	1
Acenaphthylene	ND		mg/kg	0.16	0.030	1
3-Nitroaniline	ND		mg/kg	0.19	0.036	1
Acenaphthene	ND		mg/kg	0.16	0.020	1
2,4-Dinitrophenol	ND		mg/kg	0.93	0.090	1
4-Nitrophenol	ND		mg/kg	0.27	0.079	1
2,4-Dinitrotoluene	ND		mg/kg	0.19	0.039	1
Dibenzofuran	ND		mg/kg	0.19	0.018	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.19	0.039	1
Diethyl phthalate	ND		mg/kg	0.19	0.018	1
Fluorene	ND		mg/kg	0.19	0.019	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.19	0.021	1
4-Nitroaniline	ND		mg/kg	0.19	0.080	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.50	0.093	1
NDPA/DPA	ND		mg/kg	0.16	0.022	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.19	0.030	1
Hexachlorobenzene	ND		mg/kg	0.12	0.022	1
Pentachlorophenol	ND		mg/kg	0.16	0.043	1
Atrazine	ND		mg/kg	0.16	0.068	1
Phenanthrene	0.025	J	mg/kg	0.12	0.024	1
Anthracene	ND		mg/kg	0.12	0.038	1
Carbazole	ND		mg/kg	0.19	0.019	1
Di-n-butylphthalate	ND		mg/kg	0.19	0.037	1
Fluoranthene	0.037	J	mg/kg	0.12	0.022	1
Pyrene	0.039	J	mg/kg	0.12	0.019	1
Butyl benzyl phthalate	ND		mg/kg	0.19	0.049	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.19	0.052	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.022	1
Chrysene	0.022	J	mg/kg	0.12	0.020	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.19	0.067	1
Di-n-octylphthalate	ND		mg/kg	0.19	0.066	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.033	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.031	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.047	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-45 Date Collected: 10/20/25 10:45

Client ID: FROG-SS-122 (1.5-3.5) Date Received: 10/20/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.027	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.022	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.023	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	52		25-120
Phenol-d6	49		10-120
Nitrobenzene-d5	50		23-120
2-Fluorobiphenyl	51		30-120
2,4,6-Tribromophenol	70		10-136
4-Terphenyl-d14	42		18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-46
Client ID: FROG-SS-122 (30-32)
Sample Location: CARLISLE, PA
Date Collected: 10/20/25 11:00
Date Received: 10/20/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/28/25 03:07
Analyst: JG
Percent Solids: 67%
Extraction Method: EPA 3546
Extraction Date: 10/27/25 13:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.33	0.067	1
Phenol	ND		mg/kg	0.25	0.037	1
Bis(2-chloroethyl)ether	ND		mg/kg	0.049	0.018	1
2-Chlorophenol	ND		mg/kg	0.25	0.029	1
2-Methylphenol	ND		mg/kg	0.25	0.038	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.30	0.042	1
Acetophenone	ND		mg/kg	0.25	0.031	1
1,4-Dioxane	ND		mg/kg	0.037	0.011	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.049	0.024	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.36	0.039	1
Hexachloroethane	ND		mg/kg	0.20	0.040	1
Nitrobenzene	ND		mg/kg	0.22	0.037	1
Isophorone	ND		mg/kg	0.22	0.032	1
2-Nitrophenol	ND		mg/kg	0.53	0.093	1
2,4-Dimethylphenol	ND		mg/kg	0.25	0.082	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.27	0.025	1
2,4-Dichlorophenol	ND		mg/kg	0.22	0.040	1
Naphthalene	ND		mg/kg	0.049	0.030	1
4-Chloroaniline	ND		mg/kg	0.25	0.045	1
Hexachlorobutadiene	ND		mg/kg	0.25	0.036	1
Caprolactam	ND		mg/kg	0.25	0.075	1
p-Chloro-m-cresol	ND		mg/kg	0.25	0.037	1
2-Methylnaphthalene	ND		mg/kg	0.30	0.030	1
Hexachlorocyclopentadiene	ND		mg/kg	0.71	0.22	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.25	0.026	1
2,4,6-Trichlorophenol	ND		mg/kg	0.15	0.047	1
2,4,5-Trichlorophenol	ND		mg/kg	0.25	0.047	1
Biphenyl	ND		mg/kg	0.56	0.032	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-46 Date Collected: 10/20/25 11:00

Client ID: FROG-SS-122 (30-32) Date Received: 10/20/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chloronaphthalene	ND		mg/kg	0.25	0.024	1
2-Nitroaniline	ND		mg/kg	0.25	0.048	1
Dimethyl phthalate	ND		mg/kg	0.25	0.052	1
2,6-Dinitrotoluene	ND		mg/kg	0.25	0.042	1
Acenaphthylene	ND		mg/kg	0.20	0.038	1
3-Nitroaniline	ND		mg/kg	0.25	0.047	1
Acenaphthene	ND		mg/kg	0.20	0.026	1
2,4-Dinitrophenol	ND		mg/kg	1.2	0.12	1
4-Nitrophenol	ND		mg/kg	0.35	0.10	1
2,4-Dinitrotoluene	ND		mg/kg	0.25	0.049	1
Dibenzofuran	ND		mg/kg	0.25	0.023	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.25	0.050	1
Diethyl phthalate	ND		mg/kg	0.25	0.023	1
Fluorene	ND		mg/kg	0.25	0.024	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.25	0.026	1
4-Nitroaniline	ND		mg/kg	0.25	0.10	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.64	0.12	1
NDPA/DPA	ND		mg/kg	0.20	0.028	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.25	0.038	1
Hexachlorobenzene	ND		mg/kg	0.15	0.028	1
Pentachlorophenol	ND		mg/kg	0.20	0.054	1
Atrazine	ND		mg/kg	0.20	0.086	1
Phenanthrene	ND		mg/kg	0.15	0.030	1
Anthracene	ND		mg/kg	0.15	0.048	1
Carbazole	ND		mg/kg	0.25	0.024	1
Di-n-butylphthalate	ND		mg/kg	0.25	0.047	1
Fluoranthene	ND		mg/kg	0.15	0.028	1
Pyrene	ND		mg/kg	0.15	0.024	1
Butyl benzyl phthalate	ND		mg/kg	0.25	0.062	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.25	0.066	1
Benzo(a)anthracene	ND		mg/kg	0.15	0.028	1
Chrysene	ND		mg/kg	0.15	0.026	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.25	0.086	1
Di-n-octylphthalate	ND		mg/kg	0.25	0.084	1
Benzo(b)fluoranthene	ND		mg/kg	0.15	0.042	1
Benzo(k)fluoranthene	ND		mg/kg	0.15	0.040	1
Benzo(a)pyrene	ND		mg/kg	0.20	0.060	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-46 Date Collected: 10/20/25 11:00

Client ID: FROG-SS-122 (30-32) Date Received: 10/20/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.20	0.034	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.15	0.028	1
Benzo(ghi)perylene	ND		mg/kg	0.20	0.029	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	43		25-120
Phenol-d6	43		10-120
Nitrobenzene-d5	52		23-120
2-Fluorobiphenyl	61		30-120
2,4,6-Tribromophenol	62		10-136
4-Terphenyl-d14	53		18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-47
Client ID: FROG-SS-123 (1-3)
Sample Location: CARLISLE, PA
Date Collected: 10/20/25 12:35
Date Received: 10/20/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/28/25 01:35
Analyst: JG
Percent Solids: 85%
Extraction Method: EPA 3546
Extraction Date: 10/27/25 13:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.26	0.052	1
Phenol	ND		mg/kg	0.19	0.029	1
Bis(2-chloroethyl)ether	ND		mg/kg	0.039	0.014	1
2-Chlorophenol	ND		mg/kg	0.19	0.023	1
2-Methylphenol	ND		mg/kg	0.19	0.030	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.23	0.033	1
Acetophenone	ND		mg/kg	0.19	0.024	1
1,4-Dioxane	ND		mg/kg	0.029	0.0088	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.039	0.018	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.28	0.030	1
Hexachloroethane	ND		mg/kg	0.16	0.031	1
Nitrobenzene	ND		mg/kg	0.17	0.029	1
Isophorone	ND		mg/kg	0.17	0.025	1
2-Nitrophenol	ND		mg/kg	0.42	0.073	1
2,4-Dimethylphenol	ND		mg/kg	0.19	0.064	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.21	0.019	1
2,4-Dichlorophenol	ND		mg/kg	0.17	0.031	1
Naphthalene	ND		mg/kg	0.039	0.024	1
4-Chloroaniline	ND		mg/kg	0.19	0.035	1
Hexachlorobutadiene	ND		mg/kg	0.19	0.028	1
Caprolactam	ND		mg/kg	0.19	0.059	1
p-Chloro-m-cresol	ND		mg/kg	0.19	0.029	1
2-Methylnaphthalene	ND		mg/kg	0.23	0.023	1
Hexachlorocyclopentadiene	ND		mg/kg	0.56	0.18	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.19	0.020	1
2,4,6-Trichlorophenol	ND		mg/kg	0.12	0.037	1
2,4,5-Trichlorophenol	ND		mg/kg	0.19	0.037	1
Biphenyl	ND		mg/kg	0.44	0.025	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-47 Date Collected: 10/20/25 12:35

Client ID: FROG-SS-123 (1-3) Date Received: 10/20/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chloronaphthalene	ND		mg/kg	0.19	0.019	1
2-Nitroaniline	ND		mg/kg	0.19	0.037	1
Dimethyl phthalate	ND		mg/kg	0.19	0.041	1
2,6-Dinitrotoluene	ND		mg/kg	0.19	0.033	1
Acenaphthylene	ND		mg/kg	0.16	0.030	1
3-Nitroaniline	ND		mg/kg	0.19	0.037	1
Acenaphthene	ND		mg/kg	0.16	0.020	1
2,4-Dinitrophenol	ND		mg/kg	0.93	0.090	1
4-Nitrophenol	ND		mg/kg	0.27	0.079	1
2,4-Dinitrotoluene	ND		mg/kg	0.19	0.039	1
Dibenzofuran	ND		mg/kg	0.19	0.018	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.19	0.039	1
Diethyl phthalate	ND		mg/kg	0.19	0.018	1
Fluorene	ND		mg/kg	0.19	0.019	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.19	0.021	1
4-Nitroaniline	ND		mg/kg	0.19	0.080	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.50	0.093	1
NDPA/DPA	ND		mg/kg	0.16	0.022	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.19	0.030	1
Hexachlorobenzene	ND		mg/kg	0.12	0.022	1
Pentachlorophenol	ND		mg/kg	0.16	0.043	1
Atrazine	ND		mg/kg	0.16	0.068	1
Phenanthrene	ND		mg/kg	0.12	0.024	1
Anthracene	ND		mg/kg	0.12	0.038	1
Carbazole	ND		mg/kg	0.19	0.019	1
Di-n-butylphthalate	ND		mg/kg	0.19	0.037	1
Fluoranthene	ND		mg/kg	0.12	0.022	1
Pyrene	ND		mg/kg	0.12	0.019	1
Butyl benzyl phthalate	ND		mg/kg	0.19	0.049	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.19	0.052	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.022	1
Chrysene	ND		mg/kg	0.12	0.020	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.19	0.067	1
Di-n-octylphthalate	ND		mg/kg	0.19	0.066	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.033	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.031	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.047	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-47 Date Collected: 10/20/25 12:35

Client ID: FROG-SS-123 (1-3) Date Received: 10/20/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.027	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.022	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.023	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		25-120
Phenol-d6	63		10-120
Nitrobenzene-d5	59		23-120
2-Fluorobiphenyl	68		30-120
2,4,6-Tribromophenol	82		10-136
4-Terphenyl-d14	66		18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-48
Client ID: FROG-SS-123 (17-19)
Sample Location: CARLISLE, PA

Date Collected: 10/20/25 12:42
Date Received: 10/20/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/28/25 01:53
Analyst: JG
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 10/27/25 13:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.27	0.055	1
Phenol	ND		mg/kg	0.20	0.030	1
Bis(2-chloroethyl)ether	ND		mg/kg	0.040	0.015	1
2-Chlorophenol	ND		mg/kg	0.20	0.024	1
2-Methylphenol	ND		mg/kg	0.20	0.031	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.24	0.035	1
Acetophenone	ND		mg/kg	0.20	0.025	1
1,4-Dioxane	ND		mg/kg	0.030	0.0092	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.040	0.019	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.29	0.032	1
Hexachloroethane	ND		mg/kg	0.16	0.033	1
Nitrobenzene	ND		mg/kg	0.18	0.030	1
Isophorone	ND		mg/kg	0.18	0.026	1
2-Nitrophenol	ND		mg/kg	0.44	0.076	1
2,4-Dimethylphenol	ND		mg/kg	0.20	0.067	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.22	0.020	1
2,4-Dichlorophenol	ND		mg/kg	0.18	0.032	1
Naphthalene	ND		mg/kg	0.040	0.025	1
4-Chloroaniline	ND		mg/kg	0.20	0.037	1
Hexachlorobutadiene	ND		mg/kg	0.20	0.030	1
Caprolactam	ND		mg/kg	0.20	0.062	1
p-Chloro-m-cresol	ND		mg/kg	0.20	0.030	1
2-Methylnaphthalene	ND		mg/kg	0.24	0.024	1
Hexachlorocyclopentadiene	ND		mg/kg	0.58	0.18	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.20	0.021	1
2,4,6-Trichlorophenol	ND		mg/kg	0.12	0.038	1
2,4,5-Trichlorophenol	ND		mg/kg	0.20	0.039	1
Biphenyl	ND		mg/kg	0.46	0.026	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-48 Date Collected: 10/20/25 12:42

Client ID: FROG-SS-123 (17-19) Date Received: 10/20/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chloronaphthalene	ND		mg/kg	0.20	0.020	1
2-Nitroaniline	ND		mg/kg	0.20	0.039	1
Dimethyl phthalate	ND		mg/kg	0.20	0.042	1
2,6-Dinitrotoluene	ND		mg/kg	0.20	0.035	1
Acenaphthylene	ND		mg/kg	0.16	0.031	1
3-Nitroaniline	ND		mg/kg	0.20	0.038	1
Acenaphthene	ND		mg/kg	0.16	0.021	1
2,4-Dinitrophenol	ND		mg/kg	0.97	0.094	1
4-Nitrophenol	ND		mg/kg	0.28	0.083	1
2,4-Dinitrotoluene	ND		mg/kg	0.20	0.040	1
Dibenzofuran	ND		mg/kg	0.20	0.019	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.20	0.041	1
Diethyl phthalate	ND		mg/kg	0.20	0.019	1
Fluorene	ND		mg/kg	0.20	0.020	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.20	0.022	1
4-Nitroaniline	ND		mg/kg	0.20	0.084	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.53	0.097	1
NDPA/DPA	ND		mg/kg	0.16	0.023	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.20	0.031	1
Hexachlorobenzene	ND		mg/kg	0.12	0.023	1
Pentachlorophenol	ND		mg/kg	0.16	0.044	1
Atrazine	ND		mg/kg	0.16	0.071	1
Phenanthrene	ND		mg/kg	0.12	0.025	1
Anthracene	ND		mg/kg	0.12	0.040	1
Carbazole	ND		mg/kg	0.20	0.020	1
Di-n-butylphthalate	ND		mg/kg	0.20	0.038	1
Fluoranthene	ND		mg/kg	0.12	0.023	1
Pyrene	ND		mg/kg	0.12	0.020	1
Butyl benzyl phthalate	ND		mg/kg	0.20	0.051	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.20	0.054	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.023	1
Chrysene	ND		mg/kg	0.12	0.021	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.20	0.070	1
Di-n-octylphthalate	ND		mg/kg	0.20	0.069	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.034	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.032	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.049	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-48 Date Collected: 10/20/25 12:42

Client ID: FROG-SS-123 (17-19) Date Received: 10/20/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.028	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.023	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.024	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		25-120
Phenol-d6	59		10-120
Nitrobenzene-d5	56		23-120
2-Fluorobiphenyl	64		30-120
2,4,6-Tribromophenol	78		10-136
4-Terphenyl-d14	60		18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-49
Client ID: FROG-SS-DUP-104
Sample Location: CARLISLE, PA
Date Collected: 10/20/25 00:00
Date Received: 10/20/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/28/25 02:49
Analyst: JG
Percent Solids: 81%
Extraction Method: EPA 3546
Extraction Date: 10/27/25 13:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.27	0.055	1
Phenol	ND		mg/kg	0.20	0.031	1
Bis(2-chloroethyl)ether	ND		mg/kg	0.041	0.015	1
2-Chlorophenol	ND		mg/kg	0.20	0.024	1
2-Methylphenol	ND		mg/kg	0.20	0.032	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.24	0.035	1
Acetophenone	ND		mg/kg	0.20	0.025	1
1,4-Dioxane	ND		mg/kg	0.030	0.0093	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.041	0.019	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.29	0.032	1
Hexachloroethane	ND		mg/kg	0.16	0.033	1
Nitrobenzene	ND		mg/kg	0.18	0.030	1
Isophorone	ND		mg/kg	0.18	0.026	1
2-Nitrophenol	ND		mg/kg	0.44	0.077	1
2,4-Dimethylphenol	ND		mg/kg	0.20	0.067	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.22	0.020	1
2,4-Dichlorophenol	ND		mg/kg	0.18	0.033	1
Naphthalene	ND		mg/kg	0.041	0.025	1
4-Chloroaniline	ND		mg/kg	0.20	0.037	1
Hexachlorobutadiene	ND		mg/kg	0.20	0.030	1
Caprolactam	ND		mg/kg	0.20	0.062	1
p-Chloro-m-cresol	ND		mg/kg	0.20	0.030	1
2-Methylnaphthalene	ND		mg/kg	0.24	0.025	1
Hexachlorocyclopentadiene	ND		mg/kg	0.58	0.18	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.20	0.021	1
2,4,6-Trichlorophenol	ND		mg/kg	0.12	0.039	1
2,4,5-Trichlorophenol	ND		mg/kg	0.20	0.039	1
Biphenyl	ND		mg/kg	0.46	0.026	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-49 Date Collected: 10/20/25 00:00

Client ID: FROG-SS-DUP-104 Date Received: 10/20/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chloronaphthalene	ND		mg/kg	0.20	0.020	1
2-Nitroaniline	ND		mg/kg	0.20	0.039	1
Dimethyl phthalate	ND		mg/kg	0.20	0.043	1
2,6-Dinitrotoluene	ND		mg/kg	0.20	0.035	1
Acenaphthylene	ND		mg/kg	0.16	0.031	1
3-Nitroaniline	ND		mg/kg	0.20	0.038	1
Acenaphthene	ND		mg/kg	0.16	0.021	1
2,4-Dinitrophenol	ND		mg/kg	0.98	0.095	1
4-Nitrophenol	ND		mg/kg	0.28	0.083	1
2,4-Dinitrotoluene	ND		mg/kg	0.20	0.041	1
Dibenzofuran	ND		mg/kg	0.20	0.019	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.20	0.041	1
Diethyl phthalate	ND		mg/kg	0.20	0.019	1
Fluorene	ND		mg/kg	0.20	0.020	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.20	0.022	1
4-Nitroaniline	ND		mg/kg	0.20	0.084	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.53	0.098	1
NDPA/DPA	ND		mg/kg	0.16	0.023	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.20	0.031	1
Hexachlorobenzene	ND		mg/kg	0.12	0.023	1
Pentachlorophenol	ND		mg/kg	0.16	0.045	1
Atrazine	ND		mg/kg	0.16	0.071	1
Phenanthrene	ND		mg/kg	0.12	0.025	1
Anthracene	ND		mg/kg	0.12	0.040	1
Carbazole	ND		mg/kg	0.20	0.020	1
Di-n-butylphthalate	ND		mg/kg	0.20	0.039	1
Fluoranthene	ND		mg/kg	0.12	0.023	1
Pyrene	ND		mg/kg	0.12	0.020	1
Butyl benzyl phthalate	ND		mg/kg	0.20	0.051	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.20	0.054	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.023	1
Chrysene	ND		mg/kg	0.12	0.021	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.20	0.070	1
Di-n-octylphthalate	ND		mg/kg	0.20	0.069	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.034	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.033	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.050	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-49 Date Collected: 10/20/25 00:00

Client ID: FROG-SS-DUP-104 Date Received: 10/20/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.028	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.024	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.024	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		25-120
Phenol-d6	58		10-120
Nitrobenzene-d5	52		23-120
2-Fluorobiphenyl	63		30-120
2,4,6-Tribromophenol	78		10-136
4-Terphenyl-d14	56		18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-50
Client ID: FROG-SS-FB-104
Sample Location: CARLISLE, PA
Date Collected: 10/20/25 11:47
Date Received: 10/20/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 10/24/25 23:34
Analyst: SMZ
Extraction Method: EPA 3510C
Extraction Date: 10/22/25 01:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		ug/l	5.0	1.1	1
Phenol	ND		ug/l	5.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.65	1
2-Methylphenol	ND		ug/l	5.0	2.3	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.40	1
Acetophenone	ND		ug/l	5.0	0.92	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.4	1
Nitrobenzene	ND		ug/l	1.4	0.20	1
Isophorone	ND		ug/l	5.0	0.86	1
2-Nitrophenol	ND		ug/l	5.0	2.0	1
2,4-Dimethylphenol	ND		ug/l	5.0	2.0	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.84	1
2,4-Dichlorophenol	ND		ug/l	5.0	1.7	1
Naphthalene	ND		ug/l	2.0	0.54	1
4-Chloroaniline	ND		ug/l	3.7	0.47	1
Hexachlorobutadiene	ND		ug/l	2.0	0.36	1
Caprolactam	ND		ug/l	10	1.2	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.61	1
2-Methylnaphthalene	ND		ug/l	2.0	0.37	1
Hexachlorocyclopentadiene	ND		ug/l	20	1.2	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	1.7	0.24	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	2.1	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	2.1	1
Biphenyl	ND		ug/l	2.0	0.20	1
2-Chloronaphthalene	ND		ug/l	2.0	0.35	1
2-Nitroaniline	ND		ug/l	5.0	1.0	1
Dimethyl phthalate	ND		ug/l	5.0	0.92	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.84	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-50 Date Collected: 10/20/25 11:47

Client ID: FROG-SS-FB-104 Date Received: 10/20/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthylene	ND		ug/l	2.0	0.32	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
Acenaphthene	ND		ug/l	2.0	0.40	1
2,4-Dinitrophenol	ND		ug/l	20	5.4	1
4-Nitrophenol	ND		ug/l	10	1.4	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.54	1
Dibenzofuran	ND		ug/l	2.0	0.40	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	2.2	1
Diethyl phthalate	ND		ug/l	5.0	0.76	1
Fluorene	ND		ug/l	2.0	0.44	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.39	1
4-Nitroaniline	ND		ug/l	5.0	1.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.3	1
NDPA/DPA	ND		ug/l	2.0	0.92	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.24	1
Atrazine	ND		ug/l	3.0	1.0	1
Phenanthrene	ND		ug/l	2.0	0.42	1
Anthracene	ND		ug/l	2.0	0.47	1
Carbazole	ND		ug/l	2.0	0.31	1
Di-n-butylphthalate	ND		ug/l	5.0	0.96	1
Fluoranthene	ND		ug/l	2.0	0.41	1
Pyrene	ND		ug/l	2.0	0.41	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.6	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.8	1
Chrysene	ND		ug/l	1.5	0.22	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	1.4	1
Di-n-octylphthalate	ND		ug/l	5.0	2.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		21-120
Phenol-d6	45		10-120
Nitrobenzene-d5	92		23-120
2-Fluorobiphenyl	85		15-120
2,4,6-Tribromophenol	82		10-120
4-Terphenyl-d14	94		41-149

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-51
Client ID: FROG-SS-124 (FLOOR)
Sample Location: CARLISLE, PA
Date Collected: 10/21/25 10:15
Date Received: 10/21/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/29/25 05:35
Analyst: GMR
Percent Solids: 96%
Extraction Method: EPA 3546
Extraction Date: 10/28/25 00:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.23	0.046	1
Phenol	ND		mg/kg	0.17	0.026	1
Bis(2-chloroethyl)ether	ND		mg/kg	0.034	0.013	1
2-Chlorophenol	ND		mg/kg	0.17	0.020	1
2-Methylphenol	ND		mg/kg	0.17	0.026	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.20	0.029	1
Acetophenone	ND		mg/kg	0.17	0.021	1
1,4-Dioxane	ND		mg/kg	0.026	0.0078	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.034	0.016	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.25	0.027	1
Hexachloroethane	ND		mg/kg	0.14	0.028	1
Nitrobenzene	ND		mg/kg	0.15	0.025	1
Isophorone	ND		mg/kg	0.15	0.022	1
2-Nitrophenol	ND		mg/kg	0.37	0.064	1
2,4-Dimethylphenol	ND		mg/kg	0.17	0.056	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.18	0.017	1
2,4-Dichlorophenol	ND		mg/kg	0.15	0.028	1
Naphthalene	0.46		mg/kg	0.034	0.021	1
4-Chloroaniline	ND		mg/kg	0.17	0.031	1
Hexachlorobutadiene	ND		mg/kg	0.17	0.025	1
Caprolactam	ND		mg/kg	0.17	0.052	1
p-Chloro-m-cresol	ND		mg/kg	0.17	0.026	1
2-Methylnaphthalene	0.030	J	mg/kg	0.20	0.021	1
Hexachlorocyclopentadiene	ND		mg/kg	0.49	0.16	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.17	0.018	1
2,4,6-Trichlorophenol	ND		mg/kg	0.10	0.032	1
2,4,5-Trichlorophenol	ND		mg/kg	0.17	0.033	1
Biphenyl	ND		mg/kg	0.39	0.022	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-51 Date Collected: 10/21/25 10:15

Client ID: FROG-SS-124 (FLOOR) Date Received: 10/21/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chloronaphthalene	ND		mg/kg	0.17	0.017	1
2-Nitroaniline	ND		mg/kg	0.17	0.033	1
Dimethyl phthalate	ND		mg/kg	0.17	0.036	1
2,6-Dinitrotoluene	ND		mg/kg	0.17	0.029	1
Acenaphthylene	ND		mg/kg	0.14	0.026	1
3-Nitroaniline	ND		mg/kg	0.17	0.032	1
Acenaphthene	ND		mg/kg	0.14	0.018	1
2,4-Dinitrophenol	ND		mg/kg	0.82	0.080	1
4-Nitrophenol	ND		mg/kg	0.24	0.070	1
2,4-Dinitrotoluene	ND		mg/kg	0.17	0.034	1
Dibenzofuran	ND		mg/kg	0.17	0.016	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.17	0.035	1
Diethyl phthalate	ND		mg/kg	0.17	0.016	1
Fluorene	ND		mg/kg	0.17	0.017	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.17	0.018	1
4-Nitroaniline	ND		mg/kg	0.17	0.071	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.44	0.082	1
NDPA/DPA	ND		mg/kg	0.14	0.019	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.17	0.026	1
Hexachlorobenzene	ND		mg/kg	0.10	0.019	1
Pentachlorophenol	ND		mg/kg	0.14	0.038	1
Atrazine	ND		mg/kg	0.14	0.060	1
Phenanthrene	0.30		mg/kg	0.10	0.021	1
Anthracene	0.057	J	mg/kg	0.10	0.033	1
Carbazole	0.059	J	mg/kg	0.17	0.017	1
Di-n-butylphthalate	ND		mg/kg	0.17	0.032	1
Fluoranthene	0.47		mg/kg	0.10	0.020	1
Pyrene	0.40		mg/kg	0.10	0.017	1
Butyl benzyl phthalate	ND		mg/kg	0.17	0.043	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.17	0.046	1
Benzo(a)anthracene	0.19		mg/kg	0.10	0.019	1
Chrysene	0.26		mg/kg	0.10	0.018	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.17	0.059	1
Di-n-octylphthalate	ND		mg/kg	0.17	0.058	1
Benzo(b)fluoranthene	0.29		mg/kg	0.10	0.029	1
Benzo(k)fluoranthene	0.10		mg/kg	0.10	0.027	1
Benzo(a)pyrene	0.14		mg/kg	0.14	0.042	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-51 Date Collected: 10/21/25 10:15

Client ID: FROG-SS-124 (FLOOR) Date Received: 10/21/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Indeno(1,2,3-cd)pyrene	0.12	J	mg/kg	0.14	0.024	1
Dibenzo(a,h)anthracene	0.038	J	mg/kg	0.10	0.020	1
Benzo(ghi)perylene	0.17		mg/kg	0.14	0.020	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		25-120
Phenol-d6	60		10-120
Nitrobenzene-d5	58		23-120
2-Fluorobiphenyl	64		30-120
2,4,6-Tribromophenol	82		10-136
4-Terphenyl-d14	70		18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-52
Client ID: FROG-SS-125 (FLOOR)
Sample Location: CARLISLE, PA
Date Collected: 10/21/25 11:11
Date Received: 10/21/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/29/25 02:12
Analyst: GMR
Percent Solids: 99%
Extraction Method: EPA 3546
Extraction Date: 10/28/25 00:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.22	0.045	1
Phenol	ND		mg/kg	0.17	0.025	1
Bis(2-chloroethyl)ether	ND		mg/kg	0.033	0.012	1
2-Chlorophenol	ND		mg/kg	0.17	0.020	1
2-Methylphenol	ND		mg/kg	0.17	0.026	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.20	0.028	1
Acetophenone	ND		mg/kg	0.17	0.021	1
1,4-Dioxane	ND		mg/kg	0.025	0.0076	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.033	0.016	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.24	0.026	1
Hexachloroethane	ND		mg/kg	0.13	0.027	1
Nitrobenzene	ND		mg/kg	0.15	0.025	1
Isophorone	ND		mg/kg	0.15	0.022	1
2-Nitrophenol	ND		mg/kg	0.36	0.062	1
2,4-Dimethylphenol	ND		mg/kg	0.17	0.055	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.18	0.017	1
2,4-Dichlorophenol	ND		mg/kg	0.15	0.027	1
Naphthalene	0.045		mg/kg	0.033	0.020	1
4-Chloroaniline	ND		mg/kg	0.17	0.030	1
Hexachlorobutadiene	ND		mg/kg	0.17	0.024	1
Caprolactam	ND		mg/kg	0.17	0.050	1
p-Chloro-m-cresol	ND		mg/kg	0.17	0.025	1
2-Methylnaphthalene	ND		mg/kg	0.20	0.020	1
Hexachlorocyclopentadiene	ND		mg/kg	0.48	0.15	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.17	0.017	1
2,4,6-Trichlorophenol	ND		mg/kg	0.10	0.032	1
2,4,5-Trichlorophenol	ND		mg/kg	0.17	0.032	1
Biphenyl	ND		mg/kg	0.38	0.022	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-52 Date Collected: 10/21/25 11:11

Client ID: FROG-SS-125 (FLOOR) Date Received: 10/21/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chloronaphthalene	ND		mg/kg	0.17	0.016	1
2-Nitroaniline	ND		mg/kg	0.17	0.032	1
Dimethyl phthalate	ND		mg/kg	0.17	0.035	1
2,6-Dinitrotoluene	ND		mg/kg	0.17	0.028	1
Acenaphthylene	ND		mg/kg	0.13	0.026	1
3-Nitroaniline	ND		mg/kg	0.17	0.031	1
Acenaphthene	ND		mg/kg	0.13	0.017	1
2,4-Dinitrophenol	ND		mg/kg	0.80	0.078	1
4-Nitrophenol	ND		mg/kg	0.23	0.068	1
2,4-Dinitrotoluene	ND		mg/kg	0.17	0.033	1
Dibenzofuran	ND		mg/kg	0.17	0.016	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.17	0.034	1
Diethyl phthalate	ND		mg/kg	0.17	0.015	1
Fluorene	ND		mg/kg	0.17	0.016	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.17	0.018	1
4-Nitroaniline	ND		mg/kg	0.17	0.069	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.43	0.080	1
NDPA/DPA	ND		mg/kg	0.13	0.019	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.17	0.025	1
Hexachlorobenzene	ND		mg/kg	0.10	0.019	1
Pentachlorophenol	ND		mg/kg	0.13	0.037	1
Atrazine	ND		mg/kg	0.13	0.058	1
Phenanthrene	0.058	J	mg/kg	0.10	0.020	1
Anthracene	ND		mg/kg	0.10	0.032	1
Carbazole	ND		mg/kg	0.17	0.016	1
Di-n-butylphthalate	ND		mg/kg	0.17	0.032	1
Fluoranthene	0.060	J	mg/kg	0.10	0.019	1
Pyrene	0.052	J	mg/kg	0.10	0.016	1
Butyl benzyl phthalate	ND		mg/kg	0.17	0.042	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.17	0.044	1
Benzo(a)anthracene	ND		mg/kg	0.10	0.019	1
Chrysene	ND		mg/kg	0.10	0.017	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.17	0.058	1
Di-n-octylphthalate	ND		mg/kg	0.17	0.056	1
Benzo(b)fluoranthene	ND		mg/kg	0.10	0.028	1
Benzo(k)fluoranthene	ND		mg/kg	0.10	0.027	1
Benzo(a)pyrene	ND		mg/kg	0.13	0.041	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-52 Date Collected: 10/21/25 11:11

Client ID: FROG-SS-125 (FLOOR) Date Received: 10/21/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.13	0.023	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.10	0.019	1
Benzo(ghi)perylene	ND		mg/kg	0.13	0.020	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		25-120
Phenol-d6	62		10-120
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	65		30-120
2,4,6-Tribromophenol	85		10-136
4-Terphenyl-d14	77		18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-53
Client ID: FROG-SS-126 (FLOOR)
Sample Location: CARLISLE, PA

Date Collected: 10/21/25 12:30
Date Received: 10/21/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/29/25 03:25
Analyst: GMR
Percent Solids: 99%

Extraction Method: EPA 3546
Extraction Date: 10/28/25 00:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	0.16	J	mg/kg	0.22	0.045	1
Phenol	0.15	J	mg/kg	0.17	0.025	1
Bis(2-chloroethyl)ether	ND		mg/kg	0.034	0.012	1
2-Chlorophenol	ND		mg/kg	0.17	0.020	1
2-Methylphenol	ND		mg/kg	0.17	0.026	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.20	0.029	1
Acetophenone	0.13	J	mg/kg	0.17	0.021	1
1,4-Dioxane	ND		mg/kg	0.025	0.0076	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.034	0.016	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.24	0.026	1
Hexachloroethane	ND		mg/kg	0.13	0.027	1
Nitrobenzene	ND		mg/kg	0.15	0.025	1
Isophorone	ND		mg/kg	0.15	0.022	1
2-Nitrophenol	ND		mg/kg	0.36	0.063	1
2,4-Dimethylphenol	ND		mg/kg	0.17	0.055	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.18	0.017	1
2,4-Dichlorophenol	ND		mg/kg	0.15	0.027	1
Naphthalene	0.51		mg/kg	0.034	0.020	1
4-Chloroaniline	ND		mg/kg	0.17	0.030	1
Hexachlorobutadiene	ND		mg/kg	0.17	0.024	1
Caprolactam	ND		mg/kg	0.17	0.051	1
p-Chloro-m-cresol	ND		mg/kg	0.17	0.025	1
2-Methylnaphthalene	0.064	J	mg/kg	0.20	0.020	1
Hexachlorocyclopentadiene	ND		mg/kg	0.48	0.15	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.17	0.017	1
2,4,6-Trichlorophenol	ND		mg/kg	0.10	0.032	1
2,4,5-Trichlorophenol	ND		mg/kg	0.17	0.032	1
Biphenyl	0.077	J	mg/kg	0.38	0.022	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-53 Date Collected: 10/21/25 12:30

Client ID: FROG-SS-126 (FLOOR) Date Received: 10/21/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chloronaphthalene	ND		mg/kg	0.17	0.017	1
2-Nitroaniline	ND		mg/kg	0.17	0.032	1
Dimethyl phthalate	ND		mg/kg	0.17	0.035	1
2,6-Dinitrotoluene	ND		mg/kg	0.17	0.029	1
Acenaphthylene	ND		mg/kg	0.13	0.026	1
3-Nitroaniline	ND		mg/kg	0.17	0.032	1
Acenaphthene	ND		mg/kg	0.13	0.017	1
2,4-Dinitrophenol	ND		mg/kg	0.80	0.078	1
4-Nitrophenol	0.31		mg/kg	0.23	0.068	1
2,4-Dinitrotoluene	ND		mg/kg	0.17	0.034	1
Dibenzofuran	ND		mg/kg	0.17	0.016	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.17	0.034	1
Diethyl phthalate	ND		mg/kg	0.17	0.016	1
Fluorene	ND		mg/kg	0.17	0.016	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.17	0.018	1
4-Nitroaniline	ND		mg/kg	0.17	0.069	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.44	0.080	1
NDPA/DPA	ND		mg/kg	0.13	0.019	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.17	0.026	1
Hexachlorobenzene	ND		mg/kg	0.10	0.019	1
Pentachlorophenol	ND		mg/kg	0.13	0.037	1
Atrazine	ND		mg/kg	0.13	0.059	1
Phenanthrene	0.53		mg/kg	0.10	0.020	1
Anthracene	0.042	J	mg/kg	0.10	0.033	1
Carbazole	0.088	J	mg/kg	0.17	0.016	1
Di-n-butylphthalate	0.054	J	mg/kg	0.17	0.032	1
Fluoranthene	0.30		mg/kg	0.10	0.019	1
Pyrene	0.22		mg/kg	0.10	0.017	1
Butyl benzyl phthalate	ND		mg/kg	0.17	0.042	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.17	0.044	1
Benzo(a)anthracene	0.040	J	mg/kg	0.10	0.019	1
Chrysene	0.10		mg/kg	0.10	0.017	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.17	0.058	1
Di-n-octylphthalate	ND		mg/kg	0.17	0.057	1
Benzo(b)fluoranthene	ND		mg/kg	0.10	0.028	1
Benzo(k)fluoranthene	ND		mg/kg	0.10	0.027	1
Benzo(a)pyrene	ND		mg/kg	0.13	0.041	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-53 Date Collected: 10/21/25 12:30

Client ID: FROG-SS-126 (FLOOR) Date Received: 10/21/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.13	0.023	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.10	0.019	1
Benzo(ghi)perylene	ND		mg/kg	0.13	0.020	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		25-120
Phenol-d6	55		10-120
Nitrobenzene-d5	58		23-120
2-Fluorobiphenyl	63		30-120
2,4,6-Tribromophenol	79		10-136
4-Terphenyl-d14	70		18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-54 RE
Client ID: FROG-SS-127 (FLOOR)
Sample Location: CARLISLE, PA

Date Collected: 10/21/25 13:11
Date Received: 10/21/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 11/02/25 14:30
Analyst: CMM
Percent Solids: 99%

Extraction Method: EPA 3546
Extraction Date: 10/29/25 19:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.21	0.044	1
Phenol	0.044	J	mg/kg	0.16	0.024	1
Bis(2-chloroethyl)ether	ND		mg/kg	0.032	0.012	1
2-Chlorophenol	ND		mg/kg	0.16	0.019	1
2-Methylphenol	ND		mg/kg	0.16	0.025	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.20	0.028	1
Acetophenone	ND		mg/kg	0.16	0.020	1
1,4-Dioxane	ND		mg/kg	0.024	0.0074	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.032	0.016	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.23	0.026	1
Hexachloroethane	ND		mg/kg	0.13	0.026	1
Nitrobenzene	ND		mg/kg	0.15	0.024	1
Isophorone	ND		mg/kg	0.15	0.021	1
2-Nitrophenol	ND		mg/kg	0.35	0.061	1
2,4-Dimethylphenol	ND		mg/kg	0.16	0.054	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.18	0.016	1
2,4-Dichlorophenol	ND		mg/kg	0.15	0.026	1
Naphthalene	0.026	J	mg/kg	0.032	0.020	1
4-Chloroaniline	ND		mg/kg	0.16	0.030	1
Hexachlorobutadiene	ND		mg/kg	0.16	0.024	1
Caprolactam	ND		mg/kg	0.16	0.050	1
p-Chloro-m-cresol	ND		mg/kg	0.16	0.024	1
2-Methylnaphthalene	0.036	J	mg/kg	0.20	0.020	1
Hexachlorocyclopentadiene	ND		mg/kg	0.46	0.15	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.16	0.017	1
2,4,6-Trichlorophenol	ND		mg/kg	0.098	0.031	1
2,4,5-Trichlorophenol	ND		mg/kg	0.16	0.031	1
Biphenyl	ND		mg/kg	0.37	0.021	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-54 RE Date Collected: 10/21/25 13:11

Client ID: FROG-SS-127 (FLOOR) Date Received: 10/21/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chloronaphthalene	ND		mg/kg	0.16	0.016	1
2-Nitroaniline	ND		mg/kg	0.16	0.031	1
Dimethyl phthalate	ND		mg/kg	0.16	0.034	1
2,6-Dinitrotoluene	ND		mg/kg	0.16	0.028	1
Acenaphthylene	ND		mg/kg	0.13	0.025	1
3-Nitroaniline	ND		mg/kg	0.16	0.031	1
Acenaphthene	ND		mg/kg	0.13	0.017	1
2,4-Dinitrophenol	ND		mg/kg	0.78	0.076	1
4-Nitrophenol	ND		mg/kg	0.23	0.066	1
2,4-Dinitrotoluene	ND		mg/kg	0.16	0.032	1
Dibenzofuran	0.015	J	mg/kg	0.16	0.015	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.16	0.033	1
Diethyl phthalate	ND		mg/kg	0.16	0.015	1
Fluorene	ND		mg/kg	0.16	0.016	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.16	0.017	1
4-Nitroaniline	ND		mg/kg	0.16	0.067	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.42	0.078	1
NDPA/DPA	ND		mg/kg	0.13	0.018	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.16	0.025	1
Hexachlorobenzene	ND		mg/kg	0.098	0.018	1
Pentachlorophenol	ND		mg/kg	0.13	0.036	1
Atrazine	ND		mg/kg	0.13	0.057	1
Phenanthrene	0.067	J	mg/kg	0.098	0.020	1
Anthracene	ND		mg/kg	0.098	0.032	1
Carbazole	ND		mg/kg	0.16	0.016	1
Di-n-butylphthalate	0.097	J	mg/kg	0.16	0.031	1
Fluoranthene	0.087	J	mg/kg	0.098	0.019	1
Pyrene	0.075	J	mg/kg	0.098	0.016	1
Butyl benzyl phthalate	ND		mg/kg	0.16	0.041	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.16	0.043	1
Benzo(a)anthracene	0.021	J	mg/kg	0.098	0.018	1
Chrysene	0.049	J	mg/kg	0.098	0.017	1
Bis(2-ethylhexyl)phthalate	0.51		mg/kg	0.16	0.056	1
Di-n-octylphthalate	ND		mg/kg	0.16	0.055	1
Benzo(b)fluoranthene	ND		mg/kg	0.098	0.027	1
Benzo(k)fluoranthene	ND		mg/kg	0.098	0.026	1
Benzo(a)pyrene	ND		mg/kg	0.13	0.040	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-54 RE Date Collected: 10/21/25 13:11

Client ID: FROG-SS-127 (FLOOR) Date Received: 10/21/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.13	0.023	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.098	0.019	1
Benzo(ghi)perylene	ND		mg/kg	0.13	0.019	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**11**	Q	25-120
Phenol-d6	11		10-120
Nitrobenzene-d5	**15**	Q	23-120
2-Fluorobiphenyl	**16**	Q	30-120
2,4,6-Tribromophenol	11		10-136
4-Terphenyl-d14	**15**	Q	18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-54 D
Client ID: FROG-SS-127 (FLOOR)
Sample Location: CARLISLE, PA
Date Collected: 10/21/25 13:11
Date Received: 10/21/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/29/25 04:21
Analyst: CMM
Percent Solids: 99%
Extraction Method: EPA 3546
Extraction Date: 10/28/25 00:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	2.2	0.45	10
Phenol	ND		mg/kg	1.7	0.25	10
Bis(2-chloroethyl)ether	ND		mg/kg	0.33	0.12	10
2-Chlorophenol	ND		mg/kg	1.7	0.20	10
2-Methylphenol	ND		mg/kg	1.7	0.26	10
Bis(2-chloroisopropyl)ether	ND		mg/kg	2.0	0.28	10
Acetophenone	ND		mg/kg	1.7	0.21	10
1,4-Dioxane	ND		mg/kg	0.25	0.076	10
n-Nitrosodi-n-propylamine	ND		mg/kg	0.33	0.16	10
3-Methylphenol/4-Methylphenol	ND		mg/kg	2.4	0.26	10
Hexachloroethane	ND		mg/kg	1.3	0.27	10
Nitrobenzene	ND		mg/kg	1.5	0.25	10
Isophorone	ND		mg/kg	1.5	0.22	10
2-Nitrophenol	ND		mg/kg	3.6	0.63	10
2,4-Dimethylphenol	ND		mg/kg	1.7	0.55	10
Bis(2-chloroethoxy)methane	ND		mg/kg	1.8	0.17	10
2,4-Dichlorophenol	ND		mg/kg	1.5	0.27	10
Naphthalene	0.21	J	mg/kg	0.33	0.20	10
4-Chloroaniline	ND		mg/kg	1.7	0.30	10
Hexachlorobutadiene	ND		mg/kg	1.7	0.24	10
Caprolactam	ND		mg/kg	1.7	0.51	10
p-Chloro-m-cresol	ND		mg/kg	1.7	0.25	10
2-Methylnaphthalene	ND		mg/kg	2.0	0.20	10
Hexachlorocyclopentadiene	ND		mg/kg	4.8	1.5	10
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	1.7	0.17	10
2,4,6-Trichlorophenol	ND		mg/kg	1.0	0.32	10
2,4,5-Trichlorophenol	ND		mg/kg	1.7	0.32	10
Biphenyl	ND		mg/kg	3.8	0.22	10

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-54 D
Client ID: FROG-SS-127 (FLOOR)
Sample Location: CARLISLE, PA

Date Collected: 10/21/25 13:11
Date Received: 10/21/25
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chloronaphthalene	ND		mg/kg	1.7	0.17	10
2-Nitroaniline	ND		mg/kg	1.7	0.32	10
Dimethyl phthalate	ND		mg/kg	1.7	0.35	10
2,6-Dinitrotoluene	ND		mg/kg	1.7	0.29	10
Acenaphthylene	ND		mg/kg	1.3	0.26	10
3-Nitroaniline	ND		mg/kg	1.7	0.32	10
Acenaphthene	ND		mg/kg	1.3	0.17	10
2,4-Dinitrophenol	ND		mg/kg	8.0	0.78	10
4-Nitrophenol	ND		mg/kg	2.3	0.68	10
2,4-Dinitrotoluene	ND		mg/kg	1.7	0.33	10
Dibenzofuran	ND		mg/kg	1.7	0.16	10
2,3,4,6-Tetrachlorophenol	ND		mg/kg	1.7	0.34	10
Diethyl phthalate	ND		mg/kg	1.7	0.15	10
Fluorene	ND		mg/kg	1.7	0.16	10
4-Chlorophenyl phenyl ether	ND		mg/kg	1.7	0.18	10
4-Nitroaniline	ND		mg/kg	1.7	0.69	10
4,6-Dinitro-o-cresol	ND		mg/kg	4.4	0.80	10
NDPA/DPA	ND		mg/kg	1.3	0.19	10
4-Bromophenyl phenyl ether	ND		mg/kg	1.7	0.26	10
Hexachlorobenzene	ND		mg/kg	1.0	0.19	10
Pentachlorophenol	ND		mg/kg	1.3	0.37	10
Atrazine	ND		mg/kg	1.3	0.58	10
Phenanthrene	ND		mg/kg	1.0	0.20	10
Anthracene	ND		mg/kg	1.0	0.33	10
Carbazole	ND		mg/kg	1.7	0.16	10
Di-n-butylphthalate	ND		mg/kg	1.7	0.32	10
Fluoranthene	ND		mg/kg	1.0	0.19	10
Pyrene	ND		mg/kg	1.0	0.17	10
Butyl benzyl phthalate	ND		mg/kg	1.7	0.42	10
3,3'-Dichlorobenzidine	ND		mg/kg	1.7	0.44	10
Benzo(a)anthracene	ND		mg/kg	1.0	0.19	10
Chrysene	ND		mg/kg	1.0	0.17	10
Bis(2-ethylhexyl)phthalate	1.4	J	mg/kg	1.7	0.58	10
Di-n-octylphthalate	ND		mg/kg	1.7	0.57	10
Benzo(b)fluoranthene	ND		mg/kg	1.0	0.28	10
Benzo(k)fluoranthene	ND		mg/kg	1.0	0.27	10
Benzo(a)pyrene	ND		mg/kg	1.3	0.41	10

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-54 D Date Collected: 10/21/25 13:11

Client ID: FROG-SS-127 (FLOOR) Date Received: 10/21/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Indeno(1,2,3-cd)pyrene	ND		mg/kg	1.3	0.23	10
Dibenzo(a,h)anthracene	ND		mg/kg	1.0	0.19	10
Benzo(ghi)perylene	ND		mg/kg	1.3	0.20	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**15**	Q	25-120
Phenol-d6	**9**	Q	10-120
Nitrobenzene-d5	**19**	Q	23-120
2-Fluorobiphenyl	**25**	Q	30-120
2,4,6-Tribromophenol	**0**	Q	10-136
4-Terphenyl-d14	20		18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-56
Client ID: FROG-SS-DUP-105
Sample Location: CARLISLE, PA
Date Collected: 10/21/25 00:00
Date Received: 10/21/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/30/25 17:09
Analyst: GMR
Percent Solids: 99%
Extraction Method: EPA 3546
Extraction Date: 10/29/25 19:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	0.12	J	mg/kg	0.22	0.045	1
Phenol	0.19		mg/kg	0.17	0.025	1
Bis(2-chloroethyl)ether	ND		mg/kg	0.033	0.012	1
2-Chlorophenol	ND		mg/kg	0.17	0.020	1
2-Methylphenol	ND		mg/kg	0.17	0.026	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.20	0.028	1
Acetophenone	0.13	J	mg/kg	0.17	0.020	1
1,4-Dioxane	ND		mg/kg	0.025	0.0076	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.033	0.016	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.24	0.026	1
Hexachloroethane	ND		mg/kg	0.13	0.027	1
Nitrobenzene	ND		mg/kg	0.15	0.024	1
Isophorone	ND		mg/kg	0.15	0.022	1
2-Nitrophenol	ND		mg/kg	0.36	0.062	1
2,4-Dimethylphenol	ND		mg/kg	0.17	0.055	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.18	0.017	1
2,4-Dichlorophenol	ND		mg/kg	0.15	0.027	1
Naphthalene	0.18		mg/kg	0.033	0.020	1
4-Chloroaniline	ND		mg/kg	0.17	0.030	1
Hexachlorobutadiene	ND		mg/kg	0.17	0.024	1
Caprolactam	ND		mg/kg	0.17	0.050	1
p-Chloro-m-cresol	ND		mg/kg	0.17	0.025	1
2-Methylnaphthalene	0.060	J	mg/kg	0.20	0.020	1
Hexachlorocyclopentadiene	ND		mg/kg	0.47	0.15	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.17	0.017	1
2,4,6-Trichlorophenol	ND		mg/kg	0.10	0.031	1
2,4,5-Trichlorophenol	ND		mg/kg	0.17	0.032	1
Biphenyl	0.075	J	mg/kg	0.38	0.022	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-56 Date Collected: 10/21/25 00:00

Client ID: FROG-SS-DUP-105 Date Received: 10/21/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chloronaphthalene	ND		mg/kg	0.17	0.016	1
2-Nitroaniline	ND		mg/kg	0.17	0.032	1
Dimethyl phthalate	ND		mg/kg	0.17	0.035	1
2,6-Dinitrotoluene	ND		mg/kg	0.17	0.028	1
Acenaphthylene	ND		mg/kg	0.13	0.026	1
3-Nitroaniline	ND		mg/kg	0.17	0.031	1
Acenaphthene	ND		mg/kg	0.13	0.017	1
2,4-Dinitrophenol	ND		mg/kg	0.80	0.077	1
4-Nitrophenol	ND		mg/kg	0.23	0.068	1
2,4-Dinitrotoluene	ND		mg/kg	0.17	0.033	1
Dibenzofuran	ND		mg/kg	0.17	0.016	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.17	0.034	1
Diethyl phthalate	ND		mg/kg	0.17	0.015	1
Fluorene	ND		mg/kg	0.17	0.016	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.17	0.018	1
4-Nitroaniline	ND		mg/kg	0.17	0.069	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.43	0.080	1
NDPA/DPA	ND		mg/kg	0.13	0.019	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.17	0.025	1
Hexachlorobenzene	ND		mg/kg	0.10	0.019	1
Pentachlorophenol	ND		mg/kg	0.13	0.036	1
Atrazine	ND		mg/kg	0.13	0.058	1
Phenanthrene	0.54		mg/kg	0.10	0.020	1
Anthracene	0.057	J	mg/kg	0.10	0.032	1
Carbazole	ND		mg/kg	0.17	0.016	1
Di-n-butylphthalate	ND		mg/kg	0.17	0.031	1
Fluoranthene	0.26		mg/kg	0.10	0.019	1
Pyrene	0.20		mg/kg	0.10	0.016	1
Butyl benzyl phthalate	0.098	J	mg/kg	0.17	0.042	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.17	0.044	1
Benzo(a)anthracene	0.047	J	mg/kg	0.10	0.019	1
Chrysene	0.11		mg/kg	0.10	0.017	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.17	0.057	1
Di-n-octylphthalate	ND		mg/kg	0.17	0.056	1
Benzo(b)fluoranthene	0.050	J	mg/kg	0.10	0.028	1
Benzo(k)fluoranthene	ND		mg/kg	0.10	0.026	1
Benzo(a)pyrene	ND		mg/kg	0.13	0.040	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-56 Date Collected: 10/21/25 00:00

Client ID: FROG-SS-DUP-105 Date Received: 10/21/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.13	0.023	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.10	0.019	1
Benzo(ghi)perylene	ND		mg/kg	0.13	0.020	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		25-120
Phenol-d6	55		10-120
Nitrobenzene-d5	52		23-120
2-Fluorobiphenyl	58		30-120
2,4,6-Tribromophenol	41		10-136
4-Terphenyl-d14	54		18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-57
Client ID: FROG-SS-FB-105
Sample Location: CARLISLE, PA
Date Collected: 10/21/25 12:05
Date Received: 10/21/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 10/25/25 22:28
Analyst: ALL
Extraction Method: EPA 3510C
Extraction Date: 10/23/25 05:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		ug/l	5.0	1.1	1
Phenol	ND		ug/l	5.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.65	1
2-Methylphenol	ND		ug/l	5.0	2.3	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.40	1
Acetophenone	ND		ug/l	5.0	0.92	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.4	1
Nitrobenzene	ND		ug/l	1.4	0.20	1
Isophorone	ND		ug/l	5.0	0.86	1
2-Nitrophenol	ND		ug/l	5.0	2.0	1
2,4-Dimethylphenol	ND		ug/l	5.0	2.0	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.84	1
2,4-Dichlorophenol	ND		ug/l	5.0	1.7	1
Naphthalene	ND		ug/l	2.0	0.54	1
4-Chloroaniline	ND		ug/l	3.7	0.47	1
Hexachlorobutadiene	ND		ug/l	2.0	0.36	1
Caprolactam	ND		ug/l	10	1.2	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.61	1
2-Methylnaphthalene	ND		ug/l	2.0	0.37	1
Hexachlorocyclopentadiene	ND		ug/l	20	1.2	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	1.7	0.24	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	2.1	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	2.1	1
Biphenyl	ND		ug/l	2.0	0.20	1
2-Chloronaphthalene	ND		ug/l	2.0	0.35	1
2-Nitroaniline	ND		ug/l	5.0	1.0	1
Dimethyl phthalate	ND		ug/l	5.0	0.92	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.84	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-57 Date Collected: 10/21/25 12:05

Client ID: FROG-SS-FB-105 Date Received: 10/21/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthylene	ND		ug/l	2.0	0.32	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
Acenaphthene	ND		ug/l	2.0	0.40	1
2,4-Dinitrophenol	ND		ug/l	20	5.4	1
4-Nitrophenol	ND		ug/l	10	1.4	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.54	1
Dibenzofuran	ND		ug/l	2.0	0.40	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	2.2	1
Diethyl phthalate	ND		ug/l	5.0	0.76	1
Fluorene	ND		ug/l	2.0	0.44	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.39	1
4-Nitroaniline	ND		ug/l	5.0	1.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.3	1
NDPA/DPA	ND		ug/l	2.0	0.92	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.24	1
Atrazine	ND		ug/l	3.0	1.0	1
Phenanthrene	ND		ug/l	2.0	0.42	1
Anthracene	ND		ug/l	2.0	0.47	1
Carbazole	ND		ug/l	2.0	0.31	1
Di-n-butylphthalate	2.2	J	ug/l	5.0	0.96	1
Fluoranthene	ND		ug/l	2.0	0.41	1
Pyrene	ND		ug/l	2.0	0.41	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.6	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.8	1
Chrysene	ND		ug/l	1.5	0.22	1
Bis(2-Ethylhexyl)phthalate	1.5	J	ug/l	3.0	1.4	1
Di-n-octylphthalate	ND		ug/l	5.0	2.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	55		21-120
Phenol-d6	42		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	89		15-120
2,4,6-Tribromophenol	80		10-120
4-Terphenyl-d14	97		41-149

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-58
Client ID: FROG-SS-EB
Sample Location: CARLISLE, PA
Date Collected: 10/21/25 10:36
Date Received: 10/21/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 10/25/25 22:05
Analyst: ALL
Extraction Method: EPA 3510C
Extraction Date: 10/23/25 05:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		ug/l	5.0	1.1	1
Phenol	ND		ug/l	5.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.65	1
2-Methylphenol	ND		ug/l	5.0	2.3	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.40	1
Acetophenone	ND		ug/l	5.0	0.92	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.4	1
Nitrobenzene	ND		ug/l	1.4	0.20	1
Isophorone	ND		ug/l	5.0	0.86	1
2-Nitrophenol	ND		ug/l	5.0	2.0	1
2,4-Dimethylphenol	ND		ug/l	5.0	2.0	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.84	1
2,4-Dichlorophenol	ND		ug/l	5.0	1.7	1
Naphthalene	ND		ug/l	2.0	0.54	1
4-Chloroaniline	ND		ug/l	3.7	0.47	1
Hexachlorobutadiene	ND		ug/l	2.0	0.36	1
Caprolactam	4.0	J	ug/l	10	1.2	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.61	1
2-Methylnaphthalene	ND		ug/l	2.0	0.37	1
Hexachlorocyclopentadiene	ND		ug/l	20	1.2	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	1.7	0.24	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	2.1	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	2.1	1
Biphenyl	ND		ug/l	2.0	0.20	1
2-Chloronaphthalene	ND		ug/l	2.0	0.35	1
2-Nitroaniline	ND		ug/l	5.0	1.0	1
Dimethyl phthalate	ND		ug/l	5.0	0.92	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.84	1

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-58 Date Collected: 10/21/25 10:36

Client ID: FROG-SS-EB Date Received: 10/21/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthylene	ND		ug/l	2.0	0.32	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
Acenaphthene	ND		ug/l	2.0	0.40	1
2,4-Dinitrophenol	ND		ug/l	20	5.4	1
4-Nitrophenol	ND		ug/l	10	1.4	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.54	1
Dibenzofuran	ND		ug/l	2.0	0.40	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	2.2	1
Diethyl phthalate	ND		ug/l	5.0	0.76	1
Fluorene	ND		ug/l	2.0	0.44	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.39	1
4-Nitroaniline	ND		ug/l	5.0	1.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.3	1
NDPA/DPA	ND		ug/l	2.0	0.92	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.24	1
Atrazine	ND		ug/l	3.0	1.0	1
Phenanthrene	ND		ug/l	2.0	0.42	1
Anthracene	ND		ug/l	2.0	0.47	1
Carbazole	ND		ug/l	2.0	0.31	1
Di-n-butylphthalate	3.4	J	ug/l	5.0	0.96	1
Fluoranthene	ND		ug/l	2.0	0.41	1
Pyrene	ND		ug/l	2.0	0.41	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.6	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.8	1
Chrysene	ND		ug/l	1.5	0.22	1
Bis(2-Ethylhexyl)phthalate	1.6	J	ug/l	3.0	1.4	1
Di-n-octylphthalate	ND		ug/l	5.0	2.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	48		21-120
Phenol-d6	39		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	82		15-120
2,4,6-Tribromophenol	81		10-120
4-Terphenyl-d14	93		41-149

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/16/25 23:03
Analyst: SMZ

Extraction Method: EPA 3510C
Extraction Date: 10/16/25 15:06

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 14 Batch: WG2128766-1					
Benzaldehyde	ND		ug/l	5.0	1.1
Phenol	ND		ug/l	5.0	0.35
2-Chlorophenol	ND		ug/l	2.0	0.65
2-Methylphenol	ND		ug/l	5.0	2.3
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.40
Acetophenone	ND		ug/l	5.0	0.92
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.4
Nitrobenzene	ND		ug/l	1.4	0.20
Isophorone	ND		ug/l	5.0	0.86
2-Nitrophenol	ND		ug/l	5.0	2.0
2,4-Dimethylphenol	ND		ug/l	5.0	2.0
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.84
2,4-Dichlorophenol	ND		ug/l	5.0	1.7
Naphthalene	ND		ug/l	2.0	0.54
4-Chloroaniline	ND		ug/l	3.7	0.47
Hexachlorobutadiene	ND		ug/l	2.0	0.36
Caprolactam	ND		ug/l	10	1.2
p-Chloro-m-cresol	ND		ug/l	2.0	0.61
2-Methylnaphthalene	ND		ug/l	2.0	0.37
Hexachlorocyclopentadiene	ND		ug/l	20	1.2
1,2,4,5-Tetrachlorobenzene	ND		ug/l	1.7	0.24
2,4,6-Trichlorophenol	ND		ug/l	5.0	2.1
2,4,5-Trichlorophenol	ND		ug/l	5.0	2.1
Biphenyl	ND		ug/l	2.0	0.20

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/16/25 23:03
Analyst: SMZ

Extraction Method: EPA 3510C
Extraction Date: 10/16/25 15:06

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 14 Batch: WG2128766-1					
2-Chloronaphthalene	ND		ug/l	2.0	0.35
2-Nitroaniline	ND		ug/l	5.0	1.0
Dimethyl phthalate	ND		ug/l	5.0	0.92
2,6-Dinitrotoluene	ND		ug/l	5.0	0.84
Acenaphthylene	ND		ug/l	2.0	0.32
3-Nitroaniline	ND		ug/l	5.0	1.2
Acenaphthene	ND		ug/l	2.0	0.40
2,4-Dinitrophenol	ND		ug/l	20	5.4
4-Nitrophenol	ND		ug/l	10	1.4
2,4-Dinitrotoluene	ND		ug/l	5.0	0.54
Dibenzofuran	ND		ug/l	2.0	0.40
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	2.2
Diethyl phthalate	ND		ug/l	5.0	0.76
Fluorene	ND		ug/l	2.0	0.44
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.39
4-Nitroaniline	ND		ug/l	5.0	1.4
4,6-Dinitro-o-cresol	ND		ug/l	10	2.3
NDPA/DPA	ND		ug/l	2.0	0.92
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.24
Atrazine	ND		ug/l	3.0	1.0
Phenanthrene	ND		ug/l	2.0	0.42
Anthracene	ND		ug/l	2.0	0.47
Carbazole	ND		ug/l	2.0	0.31
Di-n-butylphthalate	ND		ug/l	5.0	0.96

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/16/25 23:03
Analyst: SMZ

Extraction Method: EPA 3510C
Extraction Date: 10/16/25 15:06

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 14 Batch: WG2128766-1					
Fluoranthene	ND		ug/l	2.0	0.41
Pyrene	ND		ug/l	2.0	0.41
Butyl benzyl phthalate	ND		ug/l	5.0	2.6
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.8
Chrysene	ND		ug/l	1.5	0.22
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	1.4
Di-n-octylphthalate	ND		ug/l	5.0	2.3

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	58		21-120
Phenol-d6	36		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	67		15-120
2,4,6-Tribromophenol	72		10-120
4-Terphenyl-d14	74		41-149

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/18/25 14:02
Analyst: SMZ

Extraction Method: EPA 3510C
Extraction Date: 10/18/25 05:22

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 27 Batch: WG2129460-1					
Benzaldehyde	ND		ug/l	5.0	1.1
Phenol	ND		ug/l	5.0	0.35
2-Chlorophenol	ND		ug/l	2.0	0.65
2-Methylphenol	ND		ug/l	5.0	2.3
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.40
Acetophenone	ND		ug/l	5.0	0.92
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.4
Nitrobenzene	ND		ug/l	1.4	0.20
Isophorone	ND		ug/l	5.0	0.86
2-Nitrophenol	ND		ug/l	5.0	2.0
2,4-Dimethylphenol	ND		ug/l	5.0	2.0
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.84
2,4-Dichlorophenol	ND		ug/l	5.0	1.7
Naphthalene	ND		ug/l	2.0	0.54
4-Chloroaniline	ND		ug/l	3.7	0.47
Hexachlorobutadiene	ND		ug/l	2.0	0.36
Caprolactam	ND		ug/l	10	1.2
p-Chloro-m-cresol	ND		ug/l	2.0	0.61
2-Methylnaphthalene	ND		ug/l	2.0	0.37
Hexachlorocyclopentadiene	ND		ug/l	20	1.2
1,2,4,5-Tetrachlorobenzene	ND		ug/l	1.7	0.24
2,4,6-Trichlorophenol	ND		ug/l	5.0	2.1
2,4,5-Trichlorophenol	ND		ug/l	5.0	2.1
Biphenyl	ND		ug/l	2.0	0.20

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/18/25 14:02
Analyst: SMZ

Extraction Method: EPA 3510C
Extraction Date: 10/18/25 05:22

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 27 Batch: WG2129460-1					
2-Chloronaphthalene	ND		ug/l	2.0	0.35
2-Nitroaniline	ND		ug/l	5.0	1.0
Dimethyl phthalate	ND		ug/l	5.0	0.92
2,6-Dinitrotoluene	ND		ug/l	5.0	0.84
Acenaphthylene	ND		ug/l	2.0	0.32
3-Nitroaniline	ND		ug/l	5.0	1.2
Acenaphthene	ND		ug/l	2.0	0.40
2,4-Dinitrophenol	ND		ug/l	20	5.4
4-Nitrophenol	ND		ug/l	10	1.4
2,4-Dinitrotoluene	ND		ug/l	5.0	0.54
Dibenzofuran	ND		ug/l	2.0	0.40
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	2.2
Diethyl phthalate	ND		ug/l	5.0	0.76
Fluorene	ND		ug/l	2.0	0.44
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.39
4-Nitroaniline	ND		ug/l	5.0	1.4
4,6-Dinitro-o-cresol	ND		ug/l	10	2.3
NDPA/DPA	ND		ug/l	2.0	0.92
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.24
Atrazine	ND		ug/l	3.0	1.0
Phenanthrene	ND		ug/l	2.0	0.42
Anthracene	ND		ug/l	2.0	0.47
Carbazole	ND		ug/l	2.0	0.31
Di-n-butylphthalate	ND		ug/l	5.0	0.96

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/18/25 14:02
Analyst: SMZ

Extraction Method: EPA 3510C
Extraction Date: 10/18/25 05:22

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 27 Batch: WG2129460-1					
Fluoranthene	ND		ug/l	2.0	0.41
Pyrene	ND		ug/l	2.0	0.41
Butyl benzyl phthalate	ND		ug/l	5.0	2.6
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.8
Chrysene	ND		ug/l	1.5	0.22
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	1.4
Di-n-octylphthalate	ND		ug/l	5.0	2.3

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		21-120
Phenol-d6	50		10-120
Nitrobenzene-d5	89		23-120
2-Fluorobiphenyl	78		15-120
2,4,6-Tribromophenol	89		10-120
4-Terphenyl-d14	103		41-149

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/19/25 19:02
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 10/18/25 17:48

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-13 Batch: WG2129656-1					
Benzaldehyde	ND		mg/kg	0.22	0.044
Phenol	ND		mg/kg	0.16	0.025
Bis(2-chloroethyl)ether	ND		mg/kg	0.033	0.012
2-Chlorophenol	ND		mg/kg	0.16	0.019
2-Methylphenol	ND		mg/kg	0.16	0.026
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.20	0.028
Acetophenone	ND		mg/kg	0.16	0.020
1,4-Dioxane	ND		mg/kg	0.025	0.0075
n-Nitrosodi-n-propylamine	ND		mg/kg	0.033	0.016
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.24	0.026
Hexachloroethane	ND		mg/kg	0.13	0.027
Nitrobenzene	ND		mg/kg	0.15	0.024
Isophorone	ND		mg/kg	0.15	0.021
2-Nitrophenol	ND		mg/kg	0.36	0.062
2,4-Dimethylphenol	ND		mg/kg	0.16	0.054
Bis(2-chloroethoxy)methane	ND		mg/kg	0.18	0.016
2,4-Dichlorophenol	ND		mg/kg	0.15	0.026
Naphthalene	ND		mg/kg	0.033	0.020
4-Chloroaniline	ND		mg/kg	0.16	0.030
Hexachlorobutadiene	ND		mg/kg	0.16	0.024
Caprolactam	ND		mg/kg	0.16	0.050
p-Chloro-m-cresol	ND		mg/kg	0.16	0.024
2-Methylnaphthalene	ND		mg/kg	0.20	0.020
Hexachlorocyclopentadiene	ND		mg/kg	0.47	0.15

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/19/25 19:02
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 10/18/25 17:48

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-13 Batch: WG2129656-1					
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.16	0.017
2,4,6-Trichlorophenol	ND		mg/kg	0.099	0.031
2,4,5-Trichlorophenol	ND		mg/kg	0.16	0.032
Biphenyl	ND		mg/kg	0.38	0.021
2-Chloronaphthalene	ND		mg/kg	0.16	0.016
2-Nitroaniline	ND		mg/kg	0.16	0.032
Dimethyl phthalate	ND		mg/kg	0.16	0.035
2,6-Dinitrotoluene	ND		mg/kg	0.16	0.028
Acenaphthylene	ND		mg/kg	0.13	0.025
3-Nitroaniline	ND		mg/kg	0.16	0.031
Acenaphthene	ND		mg/kg	0.13	0.017
2,4-Dinitrophenol	ND		mg/kg	0.79	0.077
4-Nitrophenol	ND		mg/kg	0.23	0.067
2,4-Dinitrotoluene	ND		mg/kg	0.16	0.033
Dibenzofuran	ND		mg/kg	0.16	0.016
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.16	0.033
Diethyl phthalate	ND		mg/kg	0.16	0.015
Fluorene	ND		mg/kg	0.16	0.016
4-Chlorophenyl phenyl ether	ND		mg/kg	0.16	0.018
4-Nitroaniline	ND		mg/kg	0.16	0.068
4,6-Dinitro-o-cresol	ND		mg/kg	0.43	0.079
NDPA/DPA	ND		mg/kg	0.13	0.019
4-Bromophenyl phenyl ether	ND		mg/kg	0.16	0.025
Hexachlorobenzene	ND		mg/kg	0.099	0.018

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/19/25 19:02
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 10/18/25 17:48

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-13 Batch: WG2129656-1					
Pentachlorophenol	ND		mg/kg	0.13	0.036
Atrazine	ND		mg/kg	0.13	0.058
Phenanthrene	ND		mg/kg	0.099	0.020
Anthracene	ND		mg/kg	0.099	0.032
Carbazole	ND		mg/kg	0.16	0.016
Di-n-butylphthalate	ND		mg/kg	0.16	0.031
Fluoranthene	ND		mg/kg	0.099	0.019
Pyrene	ND		mg/kg	0.099	0.016
Butyl benzyl phthalate	ND		mg/kg	0.16	0.042
3,3'-Dichlorobenzidine	ND		mg/kg	0.16	0.044
Benzo(a)anthracene	ND		mg/kg	0.099	0.018
Chrysene	ND		mg/kg	0.099	0.017
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.16	0.057
Di-n-octylphthalate	ND		mg/kg	0.16	0.056
Benzo(b)fluoranthene	ND		mg/kg	0.099	0.028
Benzo(k)fluoranthene	ND		mg/kg	0.099	0.026
Benzo(a)pyrene	ND		mg/kg	0.13	0.040
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.13	0.023
Dibenzo(a,h)anthracene	ND		mg/kg	0.099	0.019
Benzo(ghi)perylene	ND		mg/kg	0.13	0.019

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/19/25 19:02
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 10/18/25 17:48

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-13 Batch: WG2129656-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	52		25-120
Phenol-d6	55		10-120
Nitrobenzene-d5	51		23-120
2-Fluorobiphenyl	60		30-120
2,4,6-Tribromophenol	89		10-136
4-Terphenyl-d14	84		18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/21/25 01:55
Analyst: IMK

Extraction Method: EPA 3546
Extraction Date: 10/19/25 08:53

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 15-26 Batch: WG2129751-1					
Benzaldehyde	ND		mg/kg	0.22	0.044
Phenol	ND		mg/kg	0.16	0.025
Bis(2-chloroethyl)ether	ND		mg/kg	0.033	0.012
2-Chlorophenol	ND		mg/kg	0.16	0.019
2-Methylphenol	ND		mg/kg	0.16	0.025
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.20	0.028
Acetophenone	ND		mg/kg	0.16	0.020
1,4-Dioxane	ND		mg/kg	0.024	0.0074
n-Nitrosodi-n-propylamine	ND		mg/kg	0.033	0.016
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.24	0.026
Hexachloroethane	ND		mg/kg	0.13	0.026
Nitrobenzene	ND		mg/kg	0.15	0.024
Isophorone	ND		mg/kg	0.15	0.021
2-Nitrophenol	ND		mg/kg	0.35	0.061
2,4-Dimethylphenol	ND		mg/kg	0.16	0.054
Bis(2-chloroethoxy)methane	ND		mg/kg	0.18	0.016
2,4-Dichlorophenol	ND		mg/kg	0.15	0.026
Naphthalene	ND		mg/kg	0.033	0.020
4-Chloroaniline	ND		mg/kg	0.16	0.030
Hexachlorobutadiene	ND		mg/kg	0.16	0.024
Caprolactam	ND		mg/kg	0.16	0.050
p-Chloro-m-cresol	ND		mg/kg	0.16	0.024
2-Methylnaphthalene	ND		mg/kg	0.20	0.020
Hexachlorocyclopentadiene	ND		mg/kg	0.47	0.15

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/21/25 01:55
Analyst: IMK

Extraction Method: EPA 3546
Extraction Date: 10/19/25 08:53

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 15-26 Batch: WG2129751-1					
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.16	0.017
2,4,6-Trichlorophenol	ND		mg/kg	0.098	0.031
2,4,5-Trichlorophenol	ND		mg/kg	0.16	0.031
Biphenyl	ND		mg/kg	0.37	0.021
2-Chloronaphthalene	ND		mg/kg	0.16	0.016
2-Nitroaniline	ND		mg/kg	0.16	0.031
Dimethyl phthalate	ND		mg/kg	0.16	0.034
2,6-Dinitrotoluene	ND		mg/kg	0.16	0.028
Acenaphthylene	ND		mg/kg	0.13	0.025
3-Nitroaniline	ND		mg/kg	0.16	0.031
Acenaphthene	ND		mg/kg	0.13	0.017
2,4-Dinitrophenol	ND		mg/kg	0.78	0.076
4-Nitrophenol	ND		mg/kg	0.23	0.067
2,4-Dinitrotoluene	ND		mg/kg	0.16	0.033
Dibenzofuran	ND		mg/kg	0.16	0.015
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.16	0.033
Diethyl phthalate	ND		mg/kg	0.16	0.015
Fluorene	ND		mg/kg	0.16	0.016
4-Chlorophenyl phenyl ether	ND		mg/kg	0.16	0.017
4-Nitroaniline	ND		mg/kg	0.16	0.068
4,6-Dinitro-o-cresol	ND		mg/kg	0.42	0.078
NDPA/DPA	ND		mg/kg	0.13	0.018
4-Bromophenyl phenyl ether	ND		mg/kg	0.16	0.025
Hexachlorobenzene	ND		mg/kg	0.098	0.018

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/21/25 01:55
Analyst: IMK

Extraction Method: EPA 3546
Extraction Date: 10/19/25 08:53

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 15-26 Batch: WG2129751-1					
Pentachlorophenol	ND		mg/kg	0.13	0.036
Atrazine	ND		mg/kg	0.13	0.057
Phenanthrene	ND		mg/kg	0.098	0.020
Anthracene	ND		mg/kg	0.098	0.032
Carbazole	ND		mg/kg	0.16	0.016
Di-n-butylphthalate	ND		mg/kg	0.16	0.031
Fluoranthene	ND		mg/kg	0.098	0.019
Pyrene	ND		mg/kg	0.098	0.016
Butyl benzyl phthalate	ND		mg/kg	0.16	0.041
3,3'-Dichlorobenzidine	ND		mg/kg	0.16	0.043
Benzo(a)anthracene	ND		mg/kg	0.098	0.018
Chrysene	ND		mg/kg	0.098	0.017
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.16	0.056
Di-n-octylphthalate	ND		mg/kg	0.16	0.056
Benzo(b)fluoranthene	ND		mg/kg	0.098	0.027
Benzo(k)fluoranthene	ND		mg/kg	0.098	0.026
Benzo(a)pyrene	ND		mg/kg	0.13	0.040
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.13	0.023
Dibenzo(a,h)anthracene	ND		mg/kg	0.098	0.019
Benzo(ghi)perylene	ND		mg/kg	0.13	0.019

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/21/25 01:55
Analyst: IMK

Extraction Method: EPA 3546
Extraction Date: 10/19/25 08:53

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 15-26 Batch: WG2129751-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		25-120
Phenol-d6	69		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	63		30-120
2,4,6-Tribromophenol	73		10-136
4-Terphenyl-d14	66		18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/21/25 15:11
Analyst: SMZ

Extraction Method: EPA 3546
Extraction Date: 10/19/25 23:02

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 28-38 Batch: WG2129893-1					
Benzaldehyde	ND		mg/kg	0.21	0.044
Phenol	ND		mg/kg	0.16	0.024
Bis(2-chloroethyl)ether	ND		mg/kg	0.032	0.012
2-Chlorophenol	ND		mg/kg	0.16	0.019
2-Methylphenol	ND		mg/kg	0.16	0.025
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.19	0.028
Acetophenone	ND		mg/kg	0.16	0.020
1,4-Dioxane	ND		mg/kg	0.024	0.0074
n-Nitrosodi-n-propylamine	ND		mg/kg	0.032	0.016
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.23	0.025
Hexachloroethane	ND		mg/kg	0.13	0.026
Nitrobenzene	ND		mg/kg	0.15	0.024
Isophorone	ND		mg/kg	0.15	0.021
2-Nitrophenol	ND		mg/kg	0.35	0.061
2,4-Dimethylphenol	ND		mg/kg	0.16	0.054
Bis(2-chloroethoxy)methane	ND		mg/kg	0.18	0.016
2,4-Dichlorophenol	ND		mg/kg	0.15	0.026
Naphthalene	ND		mg/kg	0.032	0.020
4-Chloroaniline	ND		mg/kg	0.16	0.030
Hexachlorobutadiene	ND		mg/kg	0.16	0.024
Caprolactam	ND		mg/kg	0.16	0.049
p-Chloro-m-cresol	ND		mg/kg	0.16	0.024
2-Methylnaphthalene	ND		mg/kg	0.19	0.020
Hexachlorocyclopentadiene	ND		mg/kg	0.46	0.15

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/21/25 15:11
Analyst: SMZ

Extraction Method: EPA 3546
Extraction Date: 10/19/25 23:02

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 28-38 Batch: WG2129893-1					
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.16	0.017
2,4,6-Trichlorophenol	ND		mg/kg	0.097	0.031
2,4,5-Trichlorophenol	ND		mg/kg	0.16	0.031
Biphenyl	ND		mg/kg	0.37	0.021
2-Chloronaphthalene	ND		mg/kg	0.16	0.016
2-Nitroaniline	ND		mg/kg	0.16	0.031
Dimethyl phthalate	ND		mg/kg	0.16	0.034
2,6-Dinitrotoluene	ND		mg/kg	0.16	0.028
Acenaphthylene	ND		mg/kg	0.13	0.025
3-Nitroaniline	ND		mg/kg	0.16	0.031
Acenaphthene	ND		mg/kg	0.13	0.017
2,4-Dinitrophenol	ND		mg/kg	0.78	0.076
4-Nitrophenol	ND		mg/kg	0.23	0.066
2,4-Dinitrotoluene	ND		mg/kg	0.16	0.032
Dibenzofuran	ND		mg/kg	0.16	0.015
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.16	0.033
Diethyl phthalate	ND		mg/kg	0.16	0.015
Fluorene	ND		mg/kg	0.16	0.016
4-Chlorophenyl phenyl ether	ND		mg/kg	0.16	0.017
4-Nitroaniline	ND		mg/kg	0.16	0.067
4,6-Dinitro-o-cresol	ND		mg/kg	0.42	0.078
NDPA/DPA	ND		mg/kg	0.13	0.018
4-Bromophenyl phenyl ether	ND		mg/kg	0.16	0.025
Hexachlorobenzene	ND		mg/kg	0.097	0.018

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/21/25 15:11
Analyst: SMZ

Extraction Method: EPA 3546
Extraction Date: 10/19/25 23:02

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 28-38 Batch: WG2129893-1					
Pentachlorophenol	ND		mg/kg	0.13	0.036
Atrazine	ND		mg/kg	0.13	0.057
Phenanthrene	ND		mg/kg	0.097	0.020
Anthracene	ND		mg/kg	0.097	0.032
Carbazole	ND		mg/kg	0.16	0.016
Di-n-butylphthalate	ND		mg/kg	0.16	0.031
Fluoranthene	ND		mg/kg	0.097	0.019
Pyrene	ND		mg/kg	0.097	0.016
Butyl benzyl phthalate	ND		mg/kg	0.16	0.041
3,3'-Dichlorobenzidine	ND		mg/kg	0.16	0.043
Benzo(a)anthracene	ND		mg/kg	0.097	0.018
Chrysene	ND		mg/kg	0.097	0.017
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.16	0.056
Di-n-octylphthalate	ND		mg/kg	0.16	0.055
Benzo(b)fluoranthene	ND		mg/kg	0.097	0.027
Benzo(k)fluoranthene	ND		mg/kg	0.097	0.026
Benzo(a)pyrene	ND		mg/kg	0.13	0.040
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.13	0.023
Dibenzo(a,h)anthracene	ND		mg/kg	0.097	0.019
Benzo(ghi)perylene	ND		mg/kg	0.13	0.019

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/21/25 15:11
Analyst: SMZ

Extraction Method: EPA 3546
Extraction Date: 10/19/25 23:02

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 28-38 Batch: WG2129893-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	60		25-120
Phenol-d6	65		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	67		30-120
2,4,6-Tribromophenol	77		10-136
4-Terphenyl-d14	73		18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/21/25 14:51
Analyst: ALS

Extraction Method: EPA 3510C
Extraction Date: 10/20/25 11:12

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 39 Batch: WG2130035-1					
Benzaldehyde	ND		ug/l	5.0	1.1
Phenol	ND		ug/l	5.0	0.35
2-Chlorophenol	ND		ug/l	2.0	0.65
2-Methylphenol	ND		ug/l	5.0	2.3
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.40
Acetophenone	ND		ug/l	5.0	0.92
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.4
Nitrobenzene	ND		ug/l	1.4	0.20
Isophorone	ND		ug/l	5.0	0.86
2-Nitrophenol	ND		ug/l	5.0	2.0
2,4-Dimethylphenol	ND		ug/l	5.0	2.0
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.84
2,4-Dichlorophenol	ND		ug/l	5.0	1.7
Naphthalene	ND		ug/l	2.0	0.54
4-Chloroaniline	ND		ug/l	3.7	0.47
Hexachlorobutadiene	ND		ug/l	2.0	0.36
Caprolactam	ND		ug/l	10	1.2
p-Chloro-m-cresol	ND		ug/l	2.0	0.61
2-Methylnaphthalene	ND		ug/l	2.0	0.37
Hexachlorocyclopentadiene	ND		ug/l	20	1.2
1,2,4,5-Tetrachlorobenzene	ND		ug/l	1.7	0.24
2,4,6-Trichlorophenol	ND		ug/l	5.0	2.1
2,4,5-Trichlorophenol	ND		ug/l	5.0	2.1
Biphenyl	ND		ug/l	2.0	0.20

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/21/25 14:51
Analyst: ALS

Extraction Method: EPA 3510C
Extraction Date: 10/20/25 11:12

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 39 Batch: WG2130035-1					
2-Chloronaphthalene	ND		ug/l	2.0	0.35
2-Nitroaniline	ND		ug/l	5.0	1.0
Dimethyl phthalate	ND		ug/l	5.0	0.92
2,6-Dinitrotoluene	ND		ug/l	5.0	0.84
Acenaphthylene	ND		ug/l	2.0	0.32
3-Nitroaniline	ND		ug/l	5.0	1.2
Acenaphthene	ND		ug/l	2.0	0.40
2,4-Dinitrophenol	ND		ug/l	20	5.4
4-Nitrophenol	ND		ug/l	10	1.4
2,4-Dinitrotoluene	ND		ug/l	5.0	0.54
Dibenzofuran	ND		ug/l	2.0	0.40
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	2.2
Diethyl phthalate	ND		ug/l	5.0	0.76
Fluorene	ND		ug/l	2.0	0.44
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.39
4-Nitroaniline	ND		ug/l	5.0	1.4
4,6-Dinitro-o-cresol	ND		ug/l	10	2.3
NDPA/DPA	ND		ug/l	2.0	0.92
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.24
Atrazine	ND		ug/l	3.0	1.0
Phenanthrene	ND		ug/l	2.0	0.42
Anthracene	ND		ug/l	2.0	0.47
Carbazole	ND		ug/l	2.0	0.31
Di-n-butylphthalate	1.0	J	ug/l	5.0	0.96

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/21/25 14:51
Analyst: ALS

Extraction Method: EPA 3510C
Extraction Date: 10/20/25 11:12

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 39 Batch: WG2130035-1					
Fluoranthene	ND		ug/l	2.0	0.41
Pyrene	ND		ug/l	2.0	0.41
Butyl benzyl phthalate	ND		ug/l	5.0	2.6
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.8
Chrysene	ND		ug/l	1.5	0.22
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	1.4
Di-n-octylphthalate	ND		ug/l	5.0	2.3

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	52		21-120
Phenol-d6	34		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	73		15-120
2,4,6-Tribromophenol	75		10-120
4-Terphenyl-d14	77		41-149

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/22/25 20:24
Analyst: CMM

Extraction Method: EPA 3510C
Extraction Date: 10/22/25 01:11

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 50 Batch: WG2130941-1					
Benzaldehyde	ND		ug/l	5.0	1.1
Phenol	ND		ug/l	5.0	0.35
2-Chlorophenol	ND		ug/l	2.0	0.65
2-Methylphenol	ND		ug/l	5.0	2.3
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.40
Acetophenone	ND		ug/l	5.0	0.92
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.4
Nitrobenzene	ND		ug/l	1.4	0.20
Isophorone	ND		ug/l	5.0	0.86
2-Nitrophenol	ND		ug/l	5.0	2.0
2,4-Dimethylphenol	ND		ug/l	5.0	2.0
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.84
2,4-Dichlorophenol	ND		ug/l	5.0	1.7
Naphthalene	ND		ug/l	2.0	0.54
4-Chloroaniline	ND		ug/l	3.7	0.47
Hexachlorobutadiene	ND		ug/l	2.0	0.36
Caprolactam	ND		ug/l	10	1.2
p-Chloro-m-cresol	ND		ug/l	2.0	0.61
2-Methylnaphthalene	ND		ug/l	2.0	0.37
Hexachlorocyclopentadiene	ND		ug/l	20	1.2
1,2,4,5-Tetrachlorobenzene	ND		ug/l	1.7	0.24
2,4,6-Trichlorophenol	ND		ug/l	5.0	2.1
2,4,5-Trichlorophenol	ND		ug/l	5.0	2.1
Biphenyl	ND		ug/l	2.0	0.20

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/22/25 20:24
Analyst: CMM

Extraction Method: EPA 3510C
Extraction Date: 10/22/25 01:11

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 50 Batch: WG2130941-1					
2-Chloronaphthalene	ND		ug/l	2.0	0.35
2-Nitroaniline	ND		ug/l	5.0	1.0
Dimethyl phthalate	ND		ug/l	5.0	0.92
2,6-Dinitrotoluene	ND		ug/l	5.0	0.84
Acenaphthylene	ND		ug/l	2.0	0.32
3-Nitroaniline	ND		ug/l	5.0	1.2
Acenaphthene	ND		ug/l	2.0	0.40
2,4-Dinitrophenol	ND		ug/l	20	5.4
4-Nitrophenol	ND		ug/l	10	1.4
2,4-Dinitrotoluene	ND		ug/l	5.0	0.54
Dibenzofuran	ND		ug/l	2.0	0.40
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	2.2
Diethyl phthalate	ND		ug/l	5.0	0.76
Fluorene	ND		ug/l	2.0	0.44
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.39
4-Nitroaniline	ND		ug/l	5.0	1.4
4,6-Dinitro-o-cresol	ND		ug/l	10	2.3
NDPA/DPA	ND		ug/l	2.0	0.92
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.24
Atrazine	ND		ug/l	3.0	1.0
Phenanthrene	ND		ug/l	2.0	0.42
Anthracene	ND		ug/l	2.0	0.47
Carbazole	ND		ug/l	2.0	0.31
Di-n-butylphthalate	ND		ug/l	5.0	0.96

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/22/25 20:24
Analyst: CMM

Extraction Method: EPA 3510C
Extraction Date: 10/22/25 01:11

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 50 Batch: WG2130941-1					
Fluoranthene	ND		ug/l	2.0	0.41
Pyrene	ND		ug/l	2.0	0.41
Butyl benzyl phthalate	ND		ug/l	5.0	2.6
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.8
Chrysene	ND		ug/l	1.5	0.22
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	1.4
Di-n-octylphthalate	ND		ug/l	5.0	2.3

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		21-120
Phenol-d6	49		10-120
Nitrobenzene-d5	93		23-120
2-Fluorobiphenyl	79		15-120
2,4,6-Tribromophenol	87		10-120
4-Terphenyl-d14	80		41-149

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/23/25 21:52
Analyst: SMZ

Extraction Method: EPA 3510C
Extraction Date: 10/23/25 05:45

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 57-58 Batch: WG2131571-1					
Benzaldehyde	ND		ug/l	5.0	1.1
Phenol	ND		ug/l	5.0	0.35
2-Chlorophenol	ND		ug/l	2.0	0.65
2-Methylphenol	ND		ug/l	5.0	2.3
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.40
Acetophenone	ND		ug/l	5.0	0.92
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.4
Nitrobenzene	ND		ug/l	1.4	0.20
Isophorone	ND		ug/l	5.0	0.86
2-Nitrophenol	ND		ug/l	5.0	2.0
2,4-Dimethylphenol	ND		ug/l	5.0	2.0
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.84
2,4-Dichlorophenol	ND		ug/l	5.0	1.7
Naphthalene	ND		ug/l	2.0	0.54
4-Chloroaniline	ND		ug/l	3.7	0.47
Hexachlorobutadiene	ND		ug/l	2.0	0.36
Caprolactam	ND		ug/l	10	1.2
p-Chloro-m-cresol	ND		ug/l	2.0	0.61
2-Methylnaphthalene	ND		ug/l	2.0	0.37
Hexachlorocyclopentadiene	ND		ug/l	20	1.2
1,2,4,5-Tetrachlorobenzene	ND		ug/l	1.7	0.24
2,4,6-Trichlorophenol	ND		ug/l	5.0	2.1
2,4,5-Trichlorophenol	ND		ug/l	5.0	2.1
Biphenyl	ND		ug/l	2.0	0.20

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/23/25 21:52
Analyst: SMZ

Extraction Method: EPA 3510C
Extraction Date: 10/23/25 05:45

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 57-58 Batch: WG2131571-1					
2-Chloronaphthalene	ND		ug/l	2.0	0.35
2-Nitroaniline	ND		ug/l	5.0	1.0
Dimethyl phthalate	ND		ug/l	5.0	0.92
2,6-Dinitrotoluene	ND		ug/l	5.0	0.84
Acenaphthylene	ND		ug/l	2.0	0.32
3-Nitroaniline	ND		ug/l	5.0	1.2
Acenaphthene	ND		ug/l	2.0	0.40
2,4-Dinitrophenol	ND		ug/l	20	5.4
4-Nitrophenol	ND		ug/l	10	1.4
2,4-Dinitrotoluene	ND		ug/l	5.0	0.54
Dibenzofuran	ND		ug/l	2.0	0.40
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	2.2
Diethyl phthalate	ND		ug/l	5.0	0.76
Fluorene	ND		ug/l	2.0	0.44
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.39
4-Nitroaniline	ND		ug/l	5.0	1.4
4,6-Dinitro-o-cresol	ND		ug/l	10	2.3
NDPA/DPA	ND		ug/l	2.0	0.92
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.24
Atrazine	ND		ug/l	3.0	1.0
Phenanthrene	ND		ug/l	2.0	0.42
Anthracene	ND		ug/l	2.0	0.47
Carbazole	ND		ug/l	2.0	0.31
Di-n-butylphthalate	4.4	J	ug/l	5.0	0.96

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/23/25 21:52
Analyst: SMZ

Extraction Method: EPA 3510C
Extraction Date: 10/23/25 05:45

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 57-58 Batch: WG2131571-1					
Fluoranthene	ND		ug/l	2.0	0.41
Pyrene	ND		ug/l	2.0	0.41
Butyl benzyl phthalate	ND		ug/l	5.0	2.6
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.8
Chrysene	ND		ug/l	1.5	0.22
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	1.4
Di-n-octylphthalate	ND		ug/l	5.0	2.3

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		21-120
Phenol-d6	49		10-120
Nitrobenzene-d5	107		23-120
2-Fluorobiphenyl	93		15-120
2,4,6-Tribromophenol	107		10-120
4-Terphenyl-d14	87		41-149

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/26/25 15:26
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 10/25/25 09:12

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 17 Batch: WG2132637-1					
Benzaldehyde	ND		mg/kg	0.21	0.044
Phenol	ND		mg/kg	0.16	0.024
Bis(2-chloroethyl)ether	ND		mg/kg	0.032	0.012
2-Chlorophenol	ND		mg/kg	0.16	0.019
2-Methylphenol	ND		mg/kg	0.16	0.025
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.19	0.028
Acetophenone	ND		mg/kg	0.16	0.020
1,4-Dioxane	ND		mg/kg	0.024	0.0074
n-Nitrosodi-n-propylamine	ND		mg/kg	0.032	0.015
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.23	0.025
Hexachloroethane	ND		mg/kg	0.13	0.026
Nitrobenzene	ND		mg/kg	0.14	0.024
Isophorone	ND		mg/kg	0.14	0.021
2-Nitrophenol	ND		mg/kg	0.35	0.061
2,4-Dimethylphenol	ND		mg/kg	0.16	0.053
Bis(2-chloroethoxy)methane	ND		mg/kg	0.17	0.016
2,4-Dichlorophenol	ND		mg/kg	0.14	0.026
Naphthalene	ND		mg/kg	0.032	0.020
4-Chloroaniline	ND		mg/kg	0.16	0.029
Hexachlorobutadiene	ND		mg/kg	0.16	0.024
Caprolactam	ND		mg/kg	0.16	0.049
p-Chloro-m-cresol	ND		mg/kg	0.16	0.024
2-Methylnaphthalene	ND		mg/kg	0.19	0.020
Hexachlorocyclopentadiene	ND		mg/kg	0.46	0.15

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/26/25 15:26
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 10/25/25 09:12

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 17 Batch: WG2132637-1					
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.16	0.017
2,4,6-Trichlorophenol	ND		mg/kg	0.097	0.031
2,4,5-Trichlorophenol	ND		mg/kg	0.16	0.031
Biphenyl	ND		mg/kg	0.37	0.021
2-Chloronaphthalene	ND		mg/kg	0.16	0.016
2-Nitroaniline	ND		mg/kg	0.16	0.031
Dimethyl phthalate	ND		mg/kg	0.16	0.034
2,6-Dinitrotoluene	ND		mg/kg	0.16	0.028
Acenaphthylene	ND		mg/kg	0.13	0.025
3-Nitroaniline	ND		mg/kg	0.16	0.030
Acenaphthene	ND		mg/kg	0.13	0.017
2,4-Dinitrophenol	ND		mg/kg	0.78	0.075
4-Nitrophenol	ND		mg/kg	0.23	0.066
2,4-Dinitrotoluene	ND		mg/kg	0.16	0.032
Dibenzofuran	ND		mg/kg	0.16	0.015
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.16	0.033
Diethyl phthalate	ND		mg/kg	0.16	0.015
Fluorene	ND		mg/kg	0.16	0.016
4-Chlorophenyl phenyl ether	ND		mg/kg	0.16	0.017
4-Nitroaniline	ND		mg/kg	0.16	0.067
4,6-Dinitro-o-cresol	ND		mg/kg	0.42	0.078
NDPA/DPA	ND		mg/kg	0.13	0.018
4-Bromophenyl phenyl ether	ND		mg/kg	0.16	0.025
Hexachlorobenzene	ND		mg/kg	0.097	0.018

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/26/25 15:26
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 10/25/25 09:12

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 17 Batch: WG2132637-1					
Pentachlorophenol	ND		mg/kg	0.13	0.036
Atrazine	ND		mg/kg	0.13	0.057
Phenanthrene	ND		mg/kg	0.097	0.020
Anthracene	ND		mg/kg	0.097	0.032
Carbazole	ND		mg/kg	0.16	0.016
Di-n-butylphthalate	ND		mg/kg	0.16	0.031
Fluoranthene	ND		mg/kg	0.097	0.018
Pyrene	ND		mg/kg	0.097	0.016
Butyl benzyl phthalate	ND		mg/kg	0.16	0.041
3,3'-Dichlorobenzidine	ND		mg/kg	0.16	0.043
Benzo(a)anthracene	ND		mg/kg	0.097	0.018
Chrysene	ND		mg/kg	0.097	0.017
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.16	0.056
Di-n-octylphthalate	ND		mg/kg	0.16	0.055
Benzo(b)fluoranthene	ND		mg/kg	0.097	0.027
Benzo(k)fluoranthene	ND		mg/kg	0.097	0.026
Benzo(a)pyrene	ND		mg/kg	0.13	0.039
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.13	0.022
Dibenzo(a,h)anthracene	ND		mg/kg	0.097	0.019
Benzo(ghi)perylene	ND		mg/kg	0.13	0.019

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/26/25 15:26
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 10/25/25 09:12

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 17 Batch: WG2132637-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		25-120
Phenol-d6	66		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	84		10-136
4-Terphenyl-d14	72		18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/27/25 23:26
Analyst: ALL

Extraction Method: EPA 3546
Extraction Date: 10/27/25 13:36

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 44-49 Batch: WG2133221-1					
Benzaldehyde	ND		mg/kg	0.21	0.044
Phenol	ND		mg/kg	0.16	0.024
Bis(2-chloroethyl)ether	ND		mg/kg	0.032	0.012
2-Chlorophenol	ND		mg/kg	0.16	0.019
2-Methylphenol	ND		mg/kg	0.16	0.025
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.19	0.028
Acetophenone	ND		mg/kg	0.16	0.020
1,4-Dioxane	ND		mg/kg	0.024	0.0074
n-Nitrosodi-n-propylamine	ND		mg/kg	0.032	0.016
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.23	0.025
Hexachloroethane	ND		mg/kg	0.13	0.026
Nitrobenzene	ND		mg/kg	0.14	0.024
Isophorone	ND		mg/kg	0.14	0.021
2-Nitrophenol	ND		mg/kg	0.35	0.061
2,4-Dimethylphenol	ND		mg/kg	0.16	0.054
Bis(2-chloroethoxy)methane	ND		mg/kg	0.18	0.016
2,4-Dichlorophenol	ND		mg/kg	0.14	0.026
Naphthalene	ND		mg/kg	0.032	0.020
4-Chloroaniline	ND		mg/kg	0.16	0.030
Hexachlorobutadiene	ND		mg/kg	0.16	0.024
Caprolactam	ND		mg/kg	0.16	0.049
p-Chloro-m-cresol	ND		mg/kg	0.16	0.024
2-Methylnaphthalene	ND		mg/kg	0.19	0.020
Hexachlorocyclopentadiene	ND		mg/kg	0.46	0.15

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/27/25 23:26
Analyst: ALL

Extraction Method: EPA 3546
Extraction Date: 10/27/25 13:36

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 44-49 Batch: WG2133221-1					
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.16	0.017
2,4,6-Trichlorophenol	ND		mg/kg	0.097	0.031
2,4,5-Trichlorophenol	ND		mg/kg	0.16	0.031
Biphenyl	ND		mg/kg	0.37	0.021
2-Chloronaphthalene	ND		mg/kg	0.16	0.016
2-Nitroaniline	ND		mg/kg	0.16	0.031
Dimethyl phthalate	ND		mg/kg	0.16	0.034
2,6-Dinitrotoluene	ND		mg/kg	0.16	0.028
Acenaphthylene	ND		mg/kg	0.13	0.025
3-Nitroaniline	ND		mg/kg	0.16	0.030
Acenaphthene	ND		mg/kg	0.13	0.017
2,4-Dinitrophenol	ND		mg/kg	0.78	0.076
4-Nitrophenol	ND		mg/kg	0.23	0.066
2,4-Dinitrotoluene	ND		mg/kg	0.16	0.032
Dibenzofuran	ND		mg/kg	0.16	0.015
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.16	0.033
Diethyl phthalate	ND		mg/kg	0.16	0.015
Fluorene	ND		mg/kg	0.16	0.016
4-Chlorophenyl phenyl ether	ND		mg/kg	0.16	0.017
4-Nitroaniline	ND		mg/kg	0.16	0.067
4,6-Dinitro-o-cresol	ND		mg/kg	0.42	0.078
NDPA/DPA	ND		mg/kg	0.13	0.018
4-Bromophenyl phenyl ether	ND		mg/kg	0.16	0.025
Hexachlorobenzene	ND		mg/kg	0.097	0.018

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/27/25 23:26
Analyst: ALL

Extraction Method: EPA 3546
Extraction Date: 10/27/25 13:36

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 44-49 Batch: WG2133221-1					
Pentachlorophenol	ND		mg/kg	0.13	0.036
Atrazine	ND		mg/kg	0.13	0.057
Phenanthrene	ND		mg/kg	0.097	0.020
Anthracene	ND		mg/kg	0.097	0.032
Carbazole	ND		mg/kg	0.16	0.016
Di-n-butylphthalate	ND		mg/kg	0.16	0.031
Fluoranthene	ND		mg/kg	0.097	0.019
Pyrene	ND		mg/kg	0.097	0.016
Butyl benzyl phthalate	ND		mg/kg	0.16	0.041
3,3'-Dichlorobenzidine	ND		mg/kg	0.16	0.043
Benzo(a)anthracene	ND		mg/kg	0.097	0.018
Chrysene	ND		mg/kg	0.097	0.017
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.16	0.056
Di-n-octylphthalate	ND		mg/kg	0.16	0.055
Benzo(b)fluoranthene	ND		mg/kg	0.097	0.027
Benzo(k)fluoranthene	ND		mg/kg	0.097	0.026
Benzo(a)pyrene	ND		mg/kg	0.13	0.040
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.13	0.023
Dibenzo(a,h)anthracene	ND		mg/kg	0.097	0.019
Benzo(ghi)perylene	ND		mg/kg	0.13	0.019

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/27/25 23:26
Analyst: ALL

Extraction Method: EPA 3546
Extraction Date: 10/27/25 13:36

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 44-49 Batch: WG2133221-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		25-120
Phenol-d6	60		10-120
Nitrobenzene-d5	54		23-120
2-Fluorobiphenyl	65		30-120
2,4,6-Tribromophenol	73		10-136
4-Terphenyl-d14	67		18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/28/25 20:38
Analyst: IMK

Extraction Method: EPA 3546
Extraction Date: 10/28/25 00:12

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 51-54 Batch: WG2133467-1					
Benzaldehyde	ND		mg/kg	0.21	0.044
Phenol	ND		mg/kg	0.16	0.024
Bis(2-chloroethyl)ether	ND		mg/kg	0.032	0.012
2-Chlorophenol	ND		mg/kg	0.16	0.019
2-Methylphenol	ND		mg/kg	0.16	0.025
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.19	0.028
Acetophenone	ND		mg/kg	0.16	0.020
1,4-Dioxane	ND		mg/kg	0.024	0.0074
n-Nitrosodi-n-propylamine	ND		mg/kg	0.032	0.015
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.23	0.025
Hexachloroethane	ND		mg/kg	0.13	0.026
Nitrobenzene	ND		mg/kg	0.14	0.024
Isophorone	ND		mg/kg	0.14	0.021
2-Nitrophenol	ND		mg/kg	0.35	0.061
2,4-Dimethylphenol	ND		mg/kg	0.16	0.053
Bis(2-chloroethoxy)methane	ND		mg/kg	0.17	0.016
2,4-Dichlorophenol	ND		mg/kg	0.14	0.026
Naphthalene	0.031	J	mg/kg	0.032	0.020
4-Chloroaniline	ND		mg/kg	0.16	0.029
Hexachlorobutadiene	ND		mg/kg	0.16	0.024
Caprolactam	ND		mg/kg	0.16	0.049
p-Chloro-m-cresol	ND		mg/kg	0.16	0.024
2-Methylnaphthalene	ND		mg/kg	0.19	0.020
Hexachlorocyclopentadiene	ND		mg/kg	0.46	0.15

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/28/25 20:38
Analyst: IMK

Extraction Method: EPA 3546
Extraction Date: 10/28/25 00:12

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 51-54 Batch: WG2133467-1					
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.16	0.017
2,4,6-Trichlorophenol	ND		mg/kg	0.097	0.031
2,4,5-Trichlorophenol	ND		mg/kg	0.16	0.031
Biphenyl	ND		mg/kg	0.37	0.021
2-Chloronaphthalene	ND		mg/kg	0.16	0.016
2-Nitroaniline	ND		mg/kg	0.16	0.031
Dimethyl phthalate	ND		mg/kg	0.16	0.034
2,6-Dinitrotoluene	ND		mg/kg	0.16	0.028
Acenaphthylene	ND		mg/kg	0.13	0.025
3-Nitroaniline	ND		mg/kg	0.16	0.030
Acenaphthene	ND		mg/kg	0.13	0.017
2,4-Dinitrophenol	ND		mg/kg	0.78	0.075
4-Nitrophenol	ND		mg/kg	0.23	0.066
2,4-Dinitrotoluene	ND		mg/kg	0.16	0.032
Dibenzofuran	ND		mg/kg	0.16	0.015
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.16	0.033
Diethyl phthalate	ND		mg/kg	0.16	0.015
Fluorene	ND		mg/kg	0.16	0.016
4-Chlorophenyl phenyl ether	ND		mg/kg	0.16	0.017
4-Nitroaniline	ND		mg/kg	0.16	0.067
4,6-Dinitro-o-cresol	ND		mg/kg	0.42	0.078
NDPA/DPA	ND		mg/kg	0.13	0.018
4-Bromophenyl phenyl ether	ND		mg/kg	0.16	0.025
Hexachlorobenzene	ND		mg/kg	0.097	0.018

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/28/25 20:38
Analyst: IMK

Extraction Method: EPA 3546
Extraction Date: 10/28/25 00:12

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 51-54 Batch: WG2133467-1					
Pentachlorophenol	ND		mg/kg	0.13	0.036
Atrazine	ND		mg/kg	0.13	0.057
Phenanthrene	ND		mg/kg	0.097	0.020
Anthracene	ND		mg/kg	0.097	0.032
Carbazole	ND		mg/kg	0.16	0.016
Di-n-butylphthalate	ND		mg/kg	0.16	0.031
Fluoranthene	ND		mg/kg	0.097	0.018
Pyrene	ND		mg/kg	0.097	0.016
Butyl benzyl phthalate	ND		mg/kg	0.16	0.041
3,3'-Dichlorobenzidine	ND		mg/kg	0.16	0.043
Benzo(a)anthracene	ND		mg/kg	0.097	0.018
Chrysene	ND		mg/kg	0.097	0.017
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.16	0.056
Di-n-octylphthalate	ND		mg/kg	0.16	0.055
Benzo(b)fluoranthene	ND		mg/kg	0.097	0.027
Benzo(k)fluoranthene	ND		mg/kg	0.097	0.026
Benzo(a)pyrene	ND		mg/kg	0.13	0.039
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.13	0.022
Dibenzo(a,h)anthracene	ND		mg/kg	0.097	0.019
Benzo(ghi)perylene	ND		mg/kg	0.13	0.019

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/28/25 20:38
Analyst: IMK

Extraction Method: EPA 3546
Extraction Date: 10/28/25 00:12

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 51-54 Batch: WG2133467-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	59		25-120
Phenol-d6	57		10-120
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	63		30-120
2,4,6-Tribromophenol	72		10-136
4-Terphenyl-d14	67		18-120

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/29/25 19:23
Analyst: LJG

Extraction Method: EPA 3546
Extraction Date: 10/29/25 04:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 54,56 Batch: WG2134120-1					
Benzaldehyde	ND		mg/kg	0.21	0.044
Phenol	ND		mg/kg	0.16	0.024
Bis(2-chloroethyl)ether	ND		mg/kg	0.032	0.012
2-Chlorophenol	ND		mg/kg	0.16	0.019
2-Methylphenol	ND		mg/kg	0.16	0.025
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.19	0.028
Acetophenone	ND		mg/kg	0.16	0.020
1,4-Dioxane	ND		mg/kg	0.024	0.0074
n-Nitrosodi-n-propylamine	ND		mg/kg	0.032	0.015
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.23	0.025
Hexachloroethane	ND		mg/kg	0.13	0.026
Nitrobenzene	ND		mg/kg	0.14	0.024
Isophorone	ND		mg/kg	0.14	0.021
2-Nitrophenol	ND		mg/kg	0.35	0.061
2,4-Dimethylphenol	ND		mg/kg	0.16	0.053
Bis(2-chloroethoxy)methane	ND		mg/kg	0.17	0.016
2,4-Dichlorophenol	ND		mg/kg	0.14	0.026
Naphthalene	ND		mg/kg	0.032	0.020
4-Chloroaniline	ND		mg/kg	0.16	0.029
Hexachlorobutadiene	ND		mg/kg	0.16	0.024
Caprolactam	ND		mg/kg	0.16	0.049
p-Chloro-m-cresol	ND		mg/kg	0.16	0.024
2-Methylnaphthalene	ND		mg/kg	0.19	0.020
Hexachlorocyclopentadiene	ND		mg/kg	0.46	0.15

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/29/25 19:23
Analyst: LJG

Extraction Method: EPA 3546
Extraction Date: 10/29/25 04:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 54,56 Batch: WG2134120-1					
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.16	0.017
2,4,6-Trichlorophenol	ND		mg/kg	0.097	0.031
2,4,5-Trichlorophenol	ND		mg/kg	0.16	0.031
Biphenyl	ND		mg/kg	0.37	0.021
2-Chloronaphthalene	ND		mg/kg	0.16	0.016
2-Nitroaniline	ND		mg/kg	0.16	0.031
Dimethyl phthalate	ND		mg/kg	0.16	0.034
2,6-Dinitrotoluene	ND		mg/kg	0.16	0.028
Acenaphthylene	ND		mg/kg	0.13	0.025
3-Nitroaniline	ND		mg/kg	0.16	0.030
Acenaphthene	ND		mg/kg	0.13	0.017
2,4-Dinitrophenol	ND		mg/kg	0.78	0.075
4-Nitrophenol	ND		mg/kg	0.23	0.066
2,4-Dinitrotoluene	ND		mg/kg	0.16	0.032
Dibenzofuran	ND		mg/kg	0.16	0.015
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.16	0.033
Diethyl phthalate	ND		mg/kg	0.16	0.015
Fluorene	ND		mg/kg	0.16	0.016
4-Chlorophenyl phenyl ether	ND		mg/kg	0.16	0.017
4-Nitroaniline	ND		mg/kg	0.16	0.067
4,6-Dinitro-o-cresol	ND		mg/kg	0.42	0.078
NDPA/DPA	ND		mg/kg	0.13	0.018
4-Bromophenyl phenyl ether	ND		mg/kg	0.16	0.025
Hexachlorobenzene	ND		mg/kg	0.097	0.018

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/29/25 19:23
Analyst: LJG

Extraction Method: EPA 3546
Extraction Date: 10/29/25 04:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 54,56 Batch: WG2134120-1					
Pentachlorophenol	ND		mg/kg	0.13	0.036
Atrazine	ND		mg/kg	0.13	0.056
Phenanthrene	ND		mg/kg	0.097	0.020
Anthracene	ND		mg/kg	0.097	0.032
Carbazole	ND		mg/kg	0.16	0.016
Di-n-butylphthalate	ND		mg/kg	0.16	0.031
Fluoranthene	ND		mg/kg	0.097	0.018
Pyrene	ND		mg/kg	0.097	0.016
Butyl benzyl phthalate	ND		mg/kg	0.16	0.041
3,3'-Dichlorobenzidine	ND		mg/kg	0.16	0.043
Benzo(a)anthracene	ND		mg/kg	0.097	0.018
Chrysene	ND		mg/kg	0.097	0.017
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.16	0.056
Di-n-octylphthalate	ND		mg/kg	0.16	0.055
Benzo(b)fluoranthene	ND		mg/kg	0.097	0.027
Benzo(k)fluoranthene	ND		mg/kg	0.097	0.026
Benzo(a)pyrene	ND		mg/kg	0.13	0.039
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.13	0.022
Dibenzo(a,h)anthracene	ND		mg/kg	0.097	0.019
Benzo(ghi)perylene	ND		mg/kg	0.13	0.019

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/29/25 19:23
Analyst: LJG

Extraction Method: EPA 3546
Extraction Date: 10/29/25 04:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 54,56 Batch: WG2134120-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		25-120
Phenol-d6	61		10-120
Nitrobenzene-d5	59		23-120
2-Fluorobiphenyl	68		30-120
2,4,6-Tribromophenol	84		10-136
4-Terphenyl-d14	78		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 14 Batch: WG2128766-2 WG2128766-3								
Benzaldehyde	124		126		40-140	2		30
Phenol	42		38		12-110	10		30
2-Chlorophenol	75		81		27-123	8		30
2-Methylphenol	70		75		30-130	7		30
Bis(2-chloroisopropyl)ether	63		57		40-140	10		30
Acetophenone	77		73		39-129	5		30
3-Methylphenol/4-Methylphenol	68		70		30-130	3		30
Nitrobenzene	71		82		40-140	14		30
Isophorone	69		76		40-140	10		30
2-Nitrophenol	80		93		30-130	15		30
2,4-Dimethylphenol	64		78		30-130	20		30
Bis(2-chloroethoxy)methane	66		74		40-140	11		30
2,4-Dichlorophenol	77		84		30-130	9		30
Naphthalene	66		71		40-140	7		30
4-Chloroaniline	**37**	Q	44		40-140	17		30
Hexachlorobutadiene	55		67		40-140	20		30
Caprolactam	27		24		10-130	12		30
p-Chloro-m-cresol	87		85		23-97	2		30
2-Methylnaphthalene	70		78		40-140	11		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 14 Batch: WG2128766-2 WG2128766-3								
Hexachlorocyclopentadiene	59		69		40-140	16		30
1,2,4,5-Tetrachlorobenzene	62		72		2-134	15		30
2,4,6-Trichlorophenol	76		88		30-130	15		30
2,4,5-Trichlorophenol	75		88		30-130	16		30
Biphenyl	66		72		40-140	9		30
2-Chloronaphthalene	70		77		40-140	10		30
2-Nitroaniline	78		87		52-143	11		30
Dimethyl phthalate	69		77		40-140	11		30
2,6-Dinitrotoluene	67		75		40-140	11		30
Acenaphthylene	72		76		45-123	5		30
3-Nitroaniline	85		82		25-145	4		30
Acenaphthene	72		76		37-111	5		30
2,4-Dinitrophenol	41		49		20-130	18		30
4-Nitrophenol	57		58		10-80	2		30
2,4-Dinitrotoluene	79		84		48-143	6		30
Dibenzofuran	76		81		40-140	6		30
2,3,4,6-Tetrachlorophenol	83		92		54-145	10		30
Diethyl phthalate	77		83		40-140	8		30
Fluorene	77		83		40-140	8		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 14 Batch: WG2128766-2 WG2128766-3								
4-Chlorophenyl phenyl ether	72		82		40-140	13		30
4-Nitroaniline	93		97		51-143	4		30
4,6-Dinitro-o-cresol	59		70		20-164	17		30
NDPA/DPA	75		81		40-140	8		30
4-Bromophenyl phenyl ether	70		81		40-140	15		30
Atrazine	64		70		40-140	9		30
Phenanthrene	70		75		40-140	7		30
Anthracene	72		77		40-140	7		30
Carbazole	74		77		55-144	4		30
Di-n-butylphthalate	81		82		40-140	1		30
Fluoranthene	72		77		40-140	7		30
Pyrene	70		76		26-127	8		30
Butyl benzyl phthalate	84		86		40-140	2		30
3,3'-Dichlorobenzidine	53		56		40-140	6		30
Chrysene	74		76		40-140	3		30
Bis(2-Ethylhexyl)phthalate	95		94		40-140	1		30
Di-n-octylphthalate	93		92		40-140	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 14 Batch: WG2128766-2 WG2128766-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	56		61		21-120
Phenol-d6	37		37		10-120
Nitrobenzene-d5	70		78		23-120
2-Fluorobiphenyl	64		70		15-120
2,4,6-Tribromophenol	72		86		10-120
4-Terphenyl-d14	70		74		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 27 Batch: WG2129460-2 WG2129460-3								
Benzaldehyde	**155**	Q	**149**	Q	40-140	4		30
Phenol	54		57		12-110	5		30
2-Chlorophenol	95		97		27-123	2		30
2-Methylphenol	94		93		30-130	1		30
Bis(2-chloroisopropyl)ether	72		72		40-140	0		30
Acetophenone	94		91		39-129	3		30
3-Methylphenol/4-Methylphenol	94		87		30-130	8		30
Nitrobenzene	98		94		40-140	4		30
Isophorone	95		95		40-140	0		30
2-Nitrophenol	110		110		30-130	0		30
2,4-Dimethylphenol	93		99		30-130	6		30
Bis(2-chloroethoxy)methane	85		84		40-140	1		30
2,4-Dichlorophenol	102		99		30-130	3		30
Naphthalene	80		79		40-140	1		30
4-Chloroaniline	68		66		40-140	3		30
Hexachlorobutadiene	63		67		40-140	6		30
Caprolactam	34		41		10-130	19		30
p-Chloro-m-cresol	**100**	Q	**104**	Q	23-97	4		30
2-Methylnaphthalene	81		84		40-140	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 27 Batch: WG2129460-2 WG2129460-3								
Hexachlorocyclopentadiene	59		56		40-140	5		30
1,2,4,5-Tetrachlorobenzene	74		72		2-134	3		30
2,4,6-Trichlorophenol	103		105		30-130	2		30
2,4,5-Trichlorophenol	104		107		30-130	3		30
Biphenyl	79		80		40-140	1		30
2-Chloronaphthalene	86		85		40-140	1		30
2-Nitroaniline	101		100		52-143	1		30
Dimethyl phthalate	91		90		40-140	1		30
2,6-Dinitrotoluene	86		90		40-140	5		30
Acenaphthylene	86		86		45-123	0		30
3-Nitroaniline	101		101		25-145	0		30
Acenaphthene	91		87		37-111	4		30
2,4-Dinitrophenol	31		42		20-130	30		30
4-Nitrophenol	**86**	Q	**81**	Q	10-80	6		30
2,4-Dinitrotoluene	102		104		48-143	2		30
Dibenzofuran	93		92		40-140	1		30
2,3,4,6-Tetrachlorophenol	109		108		54-145	1		30
Diethyl phthalate	100		100		40-140	0		30
Fluorene	95		96		40-140	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 27 Batch: WG2129460-2 WG2129460-3								
4-Chlorophenyl phenyl ether	95		92		40-140	3		30
4-Nitroaniline	120		116		51-143	3		30
4,6-Dinitro-o-cresol	72		77		20-164	7		30
NDPA/DPA	99		101		40-140	2		30
4-Bromophenyl phenyl ether	92		93		40-140	1		30
Atrazine	89		90		40-140	1		30
Phenanthrene	89		91		40-140	2		30
Anthracene	94		96		40-140	2		30
Carbazole	97		98		55-144	1		30
Di-n-butylphthalate	102		104		40-140	2		30
Fluoranthene	98		100		40-140	2		30
Pyrene	96		99		26-127	3		30
Butyl benzyl phthalate	112		115		40-140	3		30
3,3'-Dichlorobenzidine	86		88		40-140	2		30
Chrysene	98		96		40-140	2		30
Bis(2-Ethylhexyl)phthalate	124		130		40-140	5		30
Di-n-octylphthalate	121		123		40-140	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 27 Batch: WG2129460-2 WG2129460-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	74		75		21-120
Phenol-d6	58		55		10-120
Nitrobenzene-d5	100		101		23-120
2-Fluorobiphenyl	81		79		15-120
2,4,6-Tribromophenol	98		100		10-120
4-Terphenyl-d14	100		101		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-13 Batch: WG2129656-2 WG2129656-3								
Benzaldehyde	103		90		40-140	13		50
Phenol	83		71		26-90	16		50
Bis(2-chloroethyl)ether	81		67		40-140	19		50
2-Chlorophenol	87		72		25-102	19		50
2-Methylphenol	87		74		30-130	16		50
Bis(2-chloroisopropyl)ether	58		48		40-140	19		50
Acetophenone	99		83		14-144	18		50
1,4-Dioxane	56		44		30-130	24		50
n-Nitrosodi-n-propylamine	86		71		32-121	19		50
3-Methylphenol/4-Methylphenol	89		74		30-130	18		50
Hexachloroethane	85		72		40-140	17		50
Nitrobenzene	84		70		40-140	18		50
Isophorone	84		70		40-140	18		50
2-Nitrophenol	94		79		30-130	17		50
2,4-Dimethylphenol	91		76		30-130	18		50
Bis(2-chloroethoxy)methane	85		72		40-117	17		50
2,4-Dichlorophenol	91		78		30-130	15		50
Naphthalene	88		75		40-140	16		50
4-Chloroaniline	55		52		40-140	6		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-13 Batch: WG2129656-2 WG2129656-3								
Hexachlorobutadiene	94		82		40-140	14		50
Caprolactam	94		76		15-130	21		50
p-Chloro-m-cresol	100		83		26-103	19		50
2-Methylnaphthalene	92		79		40-140	15		50
Hexachlorocyclopentadiene	110		94		40-140	16		50
1,2,4,5-Tetrachlorobenzene	97		84		40-117	14		50
2,4,6-Trichlorophenol	101		86		30-130	16		50
2,4,5-Trichlorophenol	104		89		30-130	16		50
Biphenyl	96		81		37-127	17		50
2-Chloronaphthalene	90		76		40-140	17		50
2-Nitroaniline	101		82		47-134	21		50
Dimethyl phthalate	96		79		40-140	19		50
2,6-Dinitrotoluene	99		82		40-140	19		50
Acenaphthylene	92		78		40-140	16		50
3-Nitroaniline	72		61		26-129	17		50
Acenaphthene	93		78		31-137	18		50
2,4-Dinitrophenol	107		86		4-130	22		50
4-Nitrophenol	111		94		11-114	17		50
2,4-Dinitrotoluene	104		88		40-132	17		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-13 Batch: WG2129656-2 WG2129656-3								
Dibenzofuran	94		78		40-140	19		50
2,3,4,6-Tetrachlorophenol	111		90		58-132	21		50
Diethyl phthalate	102		84		40-140	19		50
Fluorene	95		79		40-140	18		50
4-Chlorophenyl phenyl ether	98		80		40-140	20		50
4-Nitroaniline	106		88		41-125	19		50
4,6-Dinitro-o-cresol	123		103		10-130	18		50
NDPA/DPA	96		80		36-157	18		50
4-Bromophenyl phenyl ether	103		85		40-140	19		50
Hexachlorobenzene	108		88		40-140	20		50
Pentachlorophenol	107		90		17-109	17		50
Atrazine	101		82		40-140	21		50
Phenanthrene	89		74		40-140	18		50
Anthracene	92		76		40-140	19		50
Carbazole	92		77		54-128	18		50
Di-n-butylphthalate	101		84		40-140	18		50
Fluoranthene	91		78		40-140	15		50
Pyrene	90		78		35-142	14		50
Butyl benzyl phthalate	102		90		40-140	13		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-13 Batch: WG2129656-2 WG2129656-3								
3,3'-Dichlorobenzidine	76		63		40-140	19		50
Benzo(a)anthracene	91		74		40-140	21		50
Chrysene	91		76		40-140	18		50
Bis(2-ethylhexyl)phthalate	108		90		40-140	18		50
Di-n-octylphthalate	109		92		40-140	17		50
Benzo(b)fluoranthene	93		76		40-140	20		50
Benzo(k)fluoranthene	95		76		40-140	22		50
Benzo(a)pyrene	98		78		40-140	23		50
Indeno(1,2,3-cd)pyrene	92		78		40-140	16		50
Dibenzo(a,h)anthracene	93		79		40-140	16		50
Benzo(ghi)perylene	87		73		40-140	18		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	87		69		25-120
Phenol-d6	84		68		10-120
Nitrobenzene-d5	83		65		23-120
2-Fluorobiphenyl	89		72		30-120
2,4,6-Tribromophenol	123		97		10-136
4-Terphenyl-d14	92		75		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 15-26 Batch: WG2129751-2 WG2129751-3								
Benzaldehyde	70		67		40-140	4		50
Phenol	71		67		26-90	6		50
Bis(2-chloroethyl)ether	72		68		40-140	6		50
2-Chlorophenol	76		72		25-102	5		50
2-Methylphenol	76		70		30-130	8		50
Bis(2-chloroisopropyl)ether	109		102		40-140	7		50
Acetophenone	80		74		14-144	8		50
1,4-Dioxane	70		51		30-130	31		50
n-Nitrosodi-n-propylamine	85		79		32-121	7		50
3-Methylphenol/4-Methylphenol	83		75		30-130	10		50
Hexachloroethane	77		73		40-140	5		50
Nitrobenzene	81		75		40-140	8		50
Isophorone	80		74		40-140	8		50
2-Nitrophenol	102		94		30-130	8		50
2,4-Dimethylphenol	79		72		30-130	9		50
Bis(2-chloroethoxy)methane	77		72		40-117	7		50
2,4-Dichlorophenol	79		72		30-130	9		50
Naphthalene	69		66		40-140	4		50
4-Chloroaniline	73		58		40-140	23		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 15-26 Batch: WG2129751-2 WG2129751-3								
Hexachlorobutadiene	64		61		40-140	5		50
Caprolactam	103		92		15-130	11		50
p-Chloro-m-cresol	79		73		26-103	8		50
2-Methylnaphthalene	73		68		40-140	7		50
Hexachlorocyclopentadiene	59		56		40-140	5		50
1,2,4,5-Tetrachlorobenzene	68		64		40-117	6		50
2,4,6-Trichlorophenol	80		74		30-130	8		50
2,4,5-Trichlorophenol	79		70		30-130	12		50
Biphenyl	71		65		37-127	9		50
2-Chloronaphthalene	71		66		40-140	7		50
2-Nitroaniline	89		79		47-134	12		50
Dimethyl phthalate	73		65		40-140	12		50
2,6-Dinitrotoluene	85		77		40-140	10		50
Acenaphthylene	72		65		40-140	10		50
3-Nitroaniline	76		65		26-129	16		50
Acenaphthene	73		68		31-137	7		50
2,4-Dinitrophenol	94		88		4-130	7		50
4-Nitrophenol	107		94		11-114	13		50
2,4-Dinitrotoluene	89		81		40-132	9		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 15-26 Batch: WG2129751-2 WG2129751-3								
Dibenzofuran	71		65		40-140	9		50
2,3,4,6-Tetrachlorophenol	80		75		58-132	6		50
Diethyl phthalate	82		74		40-140	10		50
Fluorene	75		68		40-140	10		50
4-Chlorophenyl phenyl ether	69		63		40-140	9		50
4-Nitroaniline	81		72		41-125	12		50
4,6-Dinitro-o-cresol	110		99		10-130	11		50
NDPA/DPA	74		68		36-157	8		50
4-Bromophenyl phenyl ether	72		66		40-140	9		50
Hexachlorobenzene	69		63		40-140	9		50
Pentachlorophenol	60		55		17-109	9		50
Atrazine	95		85		40-140	11		50
Phenanthrene	71		67		40-140	6		50
Anthracene	74		70		40-140	6		50
Carbazole	73		69		54-128	6		50
Di-n-butylphthalate	89		83		40-140	7		50
Fluoranthene	74		68		40-140	8		50
Pyrene	73		67		35-142	9		50
Butyl benzyl phthalate	83		77		40-140	8		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 15-26 Batch: WG2129751-2 WG2129751-3								
3,3'-Dichlorobenzidine	63		58		40-140	8		50
Benzo(a)anthracene	73		69		40-140	6		50
Chrysene	75		71		40-140	5		50
Bis(2-ethylhexyl)phthalate	86		83		40-140	4		50
Di-n-octylphthalate	90		85		40-140	6		50
Benzo(b)fluoranthene	80		74		40-140	8		50
Benzo(k)fluoranthene	73		71		40-140	3		50
Benzo(a)pyrene	80		76		40-140	5		50
Indeno(1,2,3-cd)pyrene	79		78		40-140	1		50
Dibenzo(a,h)anthracene	72		71		40-140	1		50
Benzo(ghi)perylene	72		72		40-140	0		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	69		66		25-120
Phenol-d6	71		65		10-120
Nitrobenzene-d5	81		75		23-120
2-Fluorobiphenyl	63		59		30-120
2,4,6-Tribromophenol	77		69		10-136
4-Terphenyl-d14	66		61		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 28-38 Batch: WG2129893-2 WG2129893-3								
Benzaldehyde	63		65		40-140	3		50
Phenol	73		78		26-90	7		50
Bis(2-chloroethyl)ether	67		71		40-140	6		50
2-Chlorophenol	68		70		25-102	3		50
2-Methylphenol	74		78		30-130	5		50
Bis(2-chloroisopropyl)ether	62		65		40-140	5		50
Acetophenone	69		72		14-144	4		50
1,4-Dioxane	65		54		30-130	18		50
n-Nitrosodi-n-propylamine	74		80		32-121	8		50
3-Methylphenol/4-Methylphenol	79		83		30-130	5		50
Hexachloroethane	67		72		40-140	7		50
Nitrobenzene	73		77		40-140	5		50
Isophorone	69		74		40-140	7		50
2-Nitrophenol	80		84		30-130	5		50
2,4-Dimethylphenol	72		76		30-130	5		50
Bis(2-chloroethoxy)methane	70		75		40-117	7		50
2,4-Dichlorophenol	73		77		30-130	5		50
Naphthalene	63		69		40-140	9		50
4-Chloroaniline	54		60		40-140	11		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 28-38 Batch: WG2129893-2 WG2129893-3								
Hexachlorobutadiene	66		72		40-140	9		50
Caprolactam	79		88		15-130	11		50
p-Chloro-m-cresol	76		82		26-103	8		50
2-Methylnaphthalene	69		75		40-140	8		50
Hexachlorocyclopentadiene	56		65		40-140	15		50
1,2,4,5-Tetrachlorobenzene	70		76		40-117	8		50
2,4,6-Trichlorophenol	80		88		30-130	10		50
2,4,5-Trichlorophenol	80		89		30-130	11		50
Biphenyl	65		71		37-127	9		50
2-Chloronaphthalene	66		71		40-140	7		50
2-Nitroaniline	77		87		47-134	12		50
Dimethyl phthalate	69		75		40-140	8		50
2,6-Dinitrotoluene	76		83		40-140	9		50
Acenaphthylene	68		75		40-140	10		50
3-Nitroaniline	63		65		26-129	3		50
Acenaphthene	65		70		31-137	7		50
2,4-Dinitrophenol	93		105		4-130	12		50
4-Nitrophenol	79		89		11-114	12		50
2,4-Dinitrotoluene	76		84		40-132	10		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 28-38 Batch: WG2129893-2 WG2129893-3								
Dibenzofuran	66		72		40-140	9		50
2,3,4,6-Tetrachlorophenol	78		86		58-132	10		50
Diethyl phthalate	68		75		40-140	10		50
Fluorene	68		74		40-140	8		50
4-Chlorophenyl phenyl ether	69		76		40-140	10		50
4-Nitroaniline	69		77		41-125	11		50
4,6-Dinitro-o-cresol	92		105		10-130	13		50
NDPA/DPA	68		75		36-157	10		50
4-Bromophenyl phenyl ether	66		73		40-140	10		50
Hexachlorobenzene	64		70		40-140	9		50
Pentachlorophenol	77		88		17-109	13		50
Atrazine	92		105		40-140	13		50
Phenanthrene	62		67		40-140	8		50
Anthracene	64		68		40-140	6		50
Carbazole	65		71		54-128	9		50
Di-n-butylphthalate	70		77		40-140	10		50
Fluoranthene	65		71		40-140	9		50
Pyrene	65		71		35-142	9		50
Butyl benzyl phthalate	80		88		40-140	10		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 28-38 Batch: WG2129893-2 WG2129893-3								
3,3'-Dichlorobenzidine	59		64		40-140	8		50
Benzo(a)anthracene	65		72		40-140	10		50
Chrysene	66		73		40-140	10		50
Bis(2-ethylhexyl)phthalate	78		86		40-140	10		50
Di-n-octylphthalate	73		81		40-140	10		50
Benzo(b)fluoranthene	69		76		40-140	10		50
Benzo(k)fluoranthene	60		68		40-140	13		50
Benzo(a)pyrene	68		74		40-140	8		50
Indeno(1,2,3-cd)pyrene	72		80		40-140	11		50
Dibenzo(a,h)anthracene	68		75		40-140	10		50
Benzo(ghi)perylene	65		71		40-140	9		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	68		72		25-120
Phenol-d6	71		75		10-120
Nitrobenzene-d5	73		77		23-120
2-Fluorobiphenyl	67		72		30-120
2,4,6-Tribromophenol	71		78		10-136
4-Terphenyl-d14	62		68		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 39 Batch: WG2130035-2 WG2130035-3								
Benzaldehyde	**144**	Q	**144**	Q	40-140	0		30
Phenol	43		42		12-110	2		30
2-Chlorophenol	82		80		27-123	2		30
2-Methylphenol	77		75		30-130	3		30
Bis(2-chloroisopropyl)ether	79		77		40-140	3		30
Acetophenone	85		84		39-129	1		30
3-Methylphenol/4-Methylphenol	77		74		30-130	4		30
Nitrobenzene	82		79		40-140	4		30
Isophorone	74		74		40-140	0		30
2-Nitrophenol	89		90		30-130	1		30
2,4-Dimethylphenol	66		66		30-130	0		30
Bis(2-chloroethoxy)methane	78		76		40-140	3		30
2,4-Dichlorophenol	83		84		30-130	1		30
Naphthalene	78		74		40-140	5		30
4-Chloroaniline	75		63		40-140	17		30
Hexachlorobutadiene	64		63		40-140	2		30
Caprolactam	43		37		10-130	15		30
p-Chloro-m-cresol	89		85		23-97	5		30
2-Methylnaphthalene	83		76		40-140	9		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 39 Batch: WG2130035-2 WG2130035-3								
Hexachlorocyclopentadiene	74		74		40-140	0		30
1,2,4,5-Tetrachlorobenzene	79		75		2-134	5		30
2,4,6-Trichlorophenol	87		83		30-130	5		30
2,4,5-Trichlorophenol	95		90		30-130	5		30
Biphenyl	83		79		40-140	5		30
2-Chloronaphthalene	82		76		40-140	8		30
2-Nitroaniline	94		90		52-143	4		30
Dimethyl phthalate	88		83		40-140	6		30
2,6-Dinitrotoluene	91		84		40-140	8		30
Acenaphthylene	86		81		45-123	6		30
3-Nitroaniline	96		89		25-145	8		30
Acenaphthene	87		82		37-111	6		30
2,4-Dinitrophenol	76		69		20-130	10		30
4-Nitrophenol	78		74		10-80	5		30
2,4-Dinitrotoluene	96		92		48-143	4		30
Dibenzofuran	90		85		40-140	6		30
2,3,4,6-Tetrachlorophenol	98		88		54-145	11		30
Diethyl phthalate	92		85		40-140	8		30
Fluorene	91		85		40-140	7		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 39 Batch: WG2130035-2 WG2130035-3								
4-Chlorophenyl phenyl ether	87		81		40-140	7		30
4-Nitroaniline	97		92		51-143	5		30
4,6-Dinitro-o-cresol	83		76		20-164	9		30
NDPA/DPA	95		87		40-140	9		30
4-Bromophenyl phenyl ether	83		83		40-140	0		30
Atrazine	94		80		40-140	16		30
Phenanthrene	88		83		40-140	6		30
Anthracene	91		84		40-140	8		30
Carbazole	94		87		55-144	8		30
Di-n-butylphthalate	97		89		40-140	9		30
Fluoranthene	90		85		40-140	6		30
Pyrene	90		86		26-127	5		30
Butyl benzyl phthalate	91		87		40-140	4		30
3,3'-Dichlorobenzidine	76		67		40-140	13		30
Chrysene	89		86		40-140	3		30
Bis(2-Ethylhexyl)phthalate	86		82		40-140	5		30
Di-n-octylphthalate	88		82		40-140	7		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 39 Batch: WG2130035-2 WG2130035-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	59		55		21-120
Phenol-d6	40		38		10-120
Nitrobenzene-d5	75		72		23-120
2-Fluorobiphenyl	72		69		15-120
2,4,6-Tribromophenol	84		78		10-120
4-Terphenyl-d14	77		73		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 50 Batch: WG2130941-2 WG2130941-3								
Benzaldehyde	113		120		40-140	6		30
Phenol	47		52		12-110	10		30
2-Chlorophenol	64		72		27-123	12		30
2-Methylphenol	67		81		30-130	19		30
Bis(2-chloroisopropyl)ether	57		65		40-140	13		30
Acetophenone	70		80		39-129	13		30
3-Methylphenol/4-Methylphenol	69		80		30-130	15		30
Nitrobenzene	78		87		40-140	11		30
Isophorone	81		94		40-140	15		30
2-Nitrophenol	70		81		30-130	15		30
2,4-Dimethylphenol	57		75		30-130	27		30
Bis(2-chloroethoxy)methane	74		81		40-140	9		30
2,4-Dichlorophenol	74		81		30-130	9		30
Naphthalene	61		67		40-140	9		30
4-Chloroaniline	69		72		40-140	4		30
Hexachlorobutadiene	59		67		40-140	13		30
Caprolactam	40		38		10-130	5		30
p-Chloro-m-cresol	88		92		23-97	4		30
2-Methylnaphthalene	65		71		40-140	9		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 50 Batch: WG2130941-2 WG2130941-3								
Hexachlorocyclopentadiene	54		65		40-140	18		30
1,2,4,5-Tetrachlorobenzene	68		72		2-134	6		30
2,4,6-Trichlorophenol	87		97		30-130	11		30
2,4,5-Trichlorophenol	89		99		30-130	11		30
Biphenyl	65		74		40-140	13		30
2-Chloronaphthalene	67		74		40-140	10		30
2-Nitroaniline	84		89		52-143	6		30
Dimethyl phthalate	80		86		40-140	7		30
2,6-Dinitrotoluene	84		87		40-140	4		30
Acenaphthylene	73		81		45-123	10		30
3-Nitroaniline	83		84		25-145	1		30
Acenaphthene	74		80		37-111	8		30
2,4-Dinitrophenol	73		89		20-130	20		30
4-Nitrophenol	**88**	Q	**94**	Q	10-80	7		30
2,4-Dinitrotoluene	91		99		48-143	8		30
Dibenzofuran	75		82		40-140	9		30
2,3,4,6-Tetrachlorophenol	97		110		54-145	13		30
Diethyl phthalate	85		92		40-140	8		30
Fluorene	79		85		40-140	7		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 50 Batch: WG2130941-2 WG2130941-3								
4-Chlorophenyl phenyl ether	77		86		40-140	11		30
4-Nitroaniline	87		94		51-143	8		30
4,6-Dinitro-o-cresol	87		98		20-164	12		30
NDPA/DPA	80		89		40-140	11		30
4-Bromophenyl phenyl ether	81		85		40-140	5		30
Atrazine	123		130		40-140	6		30
Phenanthrene	79		81		40-140	3		30
Anthracene	80		83		40-140	4		30
Carbazole	81		87		55-144	7		30
Di-n-butylphthalate	90		97		40-140	7		30
Fluoranthene	83		88		40-140	6		30
Pyrene	82		84		26-127	2		30
Butyl benzyl phthalate	94		98		40-140	4		30
3,3'-Dichlorobenzidine	92		101		40-140	9		30
Chrysene	87		92		40-140	6		30
Bis(2-Ethylhexyl)phthalate	101		108		40-140	7		30
Di-n-octylphthalate	100		106		40-140	6		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 50 Batch: WG2130941-2 WG2130941-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	55		59		21-120
Phenol-d6	45		51		10-120
Nitrobenzene-d5	73		89		23-120
2-Fluorobiphenyl	66		70		15-120
2,4,6-Tribromophenol	86		89		10-120
4-Terphenyl-d14	73		78		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 57-58 Batch: WG2131571-2 WG2131571-3								
Benzaldehyde	**156**	Q	132		40-140	17		30
Phenol	65		56		12-110	15		30
2-Chlorophenol	91		77		27-123	17		30
2-Methylphenol	98		85		30-130	14		30
Bis(2-chloroisopropyl)ether	77		67		40-140	14		30
Acetophenone	98		85		39-129	14		30
3-Methylphenol/4-Methylphenol	97		87		30-130	11		30
Nitrobenzene	111		94		40-140	17		30
Isophorone	111		100		40-140	10		30
2-Nitrophenol	102		98		30-130	4		30
2,4-Dimethylphenol	101		84		30-130	18		30
Bis(2-chloroethoxy)methane	103		90		40-140	13		30
2,4-Dichlorophenol	100		91		30-130	9		30
Naphthalene	86		77		40-140	11		30
4-Chloroaniline	106		91		40-140	15		30
Hexachlorobutadiene	89		77		40-140	14		30
Caprolactam	45		46		10-130	2		30
p-Chloro-m-cresol	**116**	Q	**107**	Q	23-97	8		30
2-Methylnaphthalene	93		84		40-140	10		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 57-58 Batch: WG2131571-2 WG2131571-3								
Hexachlorocyclopentadiene	92		84		40-140	9		30
1,2,4,5-Tetrachlorobenzene	94		86		2-134	9		30
2,4,6-Trichlorophenol	120		113		30-130	6		30
2,4,5-Trichlorophenol	121		111		30-130	9		30
Biphenyl	89		84		40-140	6		30
2-Chloronaphthalene	95		86		40-140	10		30
2-Nitroaniline	115		112		52-143	3		30
Dimethyl phthalate	106		103		40-140	3		30
2,6-Dinitrotoluene	108		112		40-140	4		30
Acenaphthylene	101		93		45-123	8		30
3-Nitroaniline	98		96		25-145	2		30
Acenaphthene	94		87		37-111	8		30
2,4-Dinitrophenol	126		122		20-130	3		30
4-Nitrophenol	**103**	Q	**106**	Q	10-80	3		30
2,4-Dinitrotoluene	111		116		48-143	4		30
Dibenzofuran	95		89		40-140	7		30
2,3,4,6-Tetrachlorophenol	120		121		54-145	1		30
Diethyl phthalate	105		105		40-140	0		30
Fluorene	97		92		40-140	5		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 57-58 Batch: WG2131571-2 WG2131571-3								
4-Chlorophenyl phenyl ether	99		94		40-140	5		30
4-Nitroaniline	97		101		51-143	4		30
4,6-Dinitro-o-cresol	124		122		20-164	2		30
NDPA/DPA	97		98		40-140	1		30
4-Bromophenyl phenyl ether	98		95		40-140	3		30
Atrazine	125		130		40-140	4		30
Phenanthrene	90		86		40-140	5		30
Anthracene	93		92		40-140	1		30
Carbazole	91		92		55-144	1		30
Di-n-butylphthalate	124		125		40-140	1		30
Fluoranthene	92		92		40-140	0		30
Pyrene	90		92		26-127	2		30
Butyl benzyl phthalate	105		111		40-140	6		30
3,3'-Dichlorobenzidine	87		80		40-140	8		30
Chrysene	96		94		40-140	2		30
Bis(2-Ethylhexyl)phthalate	117		116		40-140	1		30
Di-n-octylphthalate	116		116		40-140	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 57-58 Batch: WG2131571-2 WG2131571-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	81		66		21-120
Phenol-d6	62		54		10-120
Nitrobenzene-d5	**121**	Q	103		23-120
2-Fluorobiphenyl	97		88		15-120
2,4,6-Tribromophenol	111		111		10-120
4-Terphenyl-d14	87		90		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 17 Batch: WG2132637-2 WG2132637-3								
Benzaldehyde	58		64		40-140	10		50
Phenol	67		75		26-90	11		50
Bis(2-chloroethyl)ether	62		69		40-140	11		50
2-Chlorophenol	70		79		25-102	12		50
2-Methylphenol	70		80		30-130	13		50
Bis(2-chloroisopropyl)ether	87		97		40-140	11		50
Acetophenone	71		80		14-144	12		50
1,4-Dioxane	50		55		30-130	10		50
n-Nitrosodi-n-propylamine	71		78		32-121	9		50
3-Methylphenol/4-Methylphenol	71		81		30-130	13		50
Hexachloroethane	64		72		40-140	12		50
Nitrobenzene	68		77		40-140	12		50
Isophorone	70		78		40-140	11		50
2-Nitrophenol	95		107		30-130	12		50
2,4-Dimethylphenol	72		82		30-130	13		50
Bis(2-chloroethoxy)methane	67		75		40-117	11		50
2,4-Dichlorophenol	79		87		30-130	10		50
Naphthalene	67		74		40-140	10		50
4-Chloroaniline	56		65		40-140	15		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 17 Batch: WG2132637-2 WG2132637-3								
Hexachlorobutadiene	68		75		40-140	10		50
Caprolactam	89		100		15-130	12		50
p-Chloro-m-cresol	75		83		26-103	10		50
2-Methylnaphthalene	74		82		40-140	10		50
Hexachlorocyclopentadiene	78		84		40-140	7		50
1,2,4,5-Tetrachlorobenzene	71		78		40-117	9		50
2,4,6-Trichlorophenol	87		97		30-130	11		50
2,4,5-Trichlorophenol	85		94		30-130	10		50
Biphenyl	73		81		37-127	10		50
2-Chloronaphthalene	72		79		40-140	9		50
2-Nitroaniline	88		98		47-134	11		50
Dimethyl phthalate	75		83		40-140	10		50
2,6-Dinitrotoluene	89		98		40-140	10		50
Acenaphthylene	72		80		40-140	11		50
3-Nitroaniline	56		62		26-129	10		50
Acenaphthene	70		78		31-137	11		50
2,4-Dinitrophenol	109		124		4-130	13		50
4-Nitrophenol	95		106		11-114	11		50
2,4-Dinitrotoluene	88		99		40-132	12		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 17 Batch: WG2132637-2 WG2132637-3								
Dibenzofuran	69		78		40-140	12		50
2,3,4,6-Tetrachlorophenol	87		98		58-132	12		50
Diethyl phthalate	74		83		40-140	11		50
Fluorene	72		80		40-140	11		50
4-Chlorophenyl phenyl ether	71		79		40-140	11		50
4-Nitroaniline	77		86		41-125	11		50
4,6-Dinitro-o-cresol	115		128		10-130	11		50
NDPA/DPA	72		80		36-157	11		50
4-Bromophenyl phenyl ether	72		80		40-140	11		50
Hexachlorobenzene	71		80		40-140	12		50
Pentachlorophenol	82		90		17-109	9		50
Atrazine	88		99		40-140	12		50
Phenanthrene	70		79		40-140	12		50
Anthracene	73		82		40-140	12		50
Carbazole	72		81		54-128	12		50
Di-n-butylphthalate	82		91		40-140	10		50
Fluoranthene	74		82		40-140	10		50
Pyrene	72		80		35-142	11		50
Butyl benzyl phthalate	75		83		40-140	10		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 17 Batch: WG2132637-2 WG2132637-3								
3,3'-Dichlorobenzidine	49		60		40-140	20		50
Benzo(a)anthracene	74		82		40-140	10		50
Chrysene	76		83		40-140	9		50
Bis(2-ethylhexyl)phthalate	79		86		40-140	8		50
Di-n-octylphthalate	81		89		40-140	9		50
Benzo(b)fluoranthene	78		87		40-140	11		50
Benzo(k)fluoranthene	77		84		40-140	9		50
Benzo(a)pyrene	82		89		40-140	8		50
Indeno(1,2,3-cd)pyrene	81		91		40-140	12		50
Dibenzo(a,h)anthracene	77		86		40-140	11		50
Benzo(ghi)perylene	72		80		40-140	11		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	67		74		25-120
Phenol-d6	64		72		10-120
Nitrobenzene-d5	66		74		23-120
2-Fluorobiphenyl	65		73		30-120
2,4,6-Tribromophenol	79		89		10-136
4-Terphenyl-d14	69		77		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 44-49 Batch: WG2133221-2 WG2133221-3								
Benzaldehyde	70		71		40-140	1		50
Phenol	58		56		26-90	4		50
Bis(2-chloroethyl)ether	55		53		40-140	4		50
2-Chlorophenol	61		60		25-102	2		50
2-Methylphenol	61		59		30-130	3		50
Bis(2-chloroisopropyl)ether	**39**	Q	**38**	Q	40-140	3		50
Acetophenone	69		66		14-144	4		50
1,4-Dioxane	44		43		30-130	2		50
n-Nitrosodi-n-propylamine	57		56		32-121	2		50
3-Methylphenol/4-Methylphenol	61		59		30-130	3		50
Hexachloroethane	61		60		40-140	2		50
Nitrobenzene	58		55		40-140	5		50
Isophorone	57		55		40-140	4		50
2-Nitrophenol	65		64		30-130	2		50
2,4-Dimethylphenol	60		60		30-130	0		50
Bis(2-chloroethoxy)methane	57		57		40-117	0		50
2,4-Dichlorophenol	63		62		30-130	2		50
Naphthalene	64		62		40-140	3		50
4-Chloroaniline	**38**	Q	**38**	Q	40-140	0		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 44-49 Batch: WG2133221-2 WG2133221-3								
Hexachlorobutadiene	69		66		40-140	4		50
Caprolactam	56		54		15-130	4		50
p-Chloro-m-cresol	66		63		26-103	5		50
2-Methylnaphthalene	65		63		40-140	3		50
Hexachlorocyclopentadiene	72		72		40-140	0		50
1,2,4,5-Tetrachlorobenzene	70		66		40-117	6		50
2,4,6-Trichlorophenol	68		66		30-130	3		50
2,4,5-Trichlorophenol	68		67		30-130	1		50
Biphenyl	66		64		37-127	3		50
2-Chloronaphthalene	62		60		40-140	3		50
2-Nitroaniline	64		62		47-134	3		50
Dimethyl phthalate	63		61		40-140	3		50
2,6-Dinitrotoluene	66		62		40-140	6		50
Acenaphthylene	63		61		40-140	3		50
3-Nitroaniline	42		42		26-129	0		50
Acenaphthene	63		62		31-137	2		50
2,4-Dinitrophenol	63		62		4-130	2		50
4-Nitrophenol	62		61		11-114	2		50
2,4-Dinitrotoluene	66		64		40-132	3		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 44-49 Batch: WG2133221-2 WG2133221-3								
Dibenzofuran	64		62		40-140	3		50
2,3,4,6-Tetrachlorophenol	74		70		58-132	6		50
Diethyl phthalate	64		63		40-140	2		50
Fluorene	63		61		40-140	3		50
4-Chlorophenyl phenyl ether	65		63		40-140	3		50
4-Nitroaniline	55		60		41-125	9		50
4,6-Dinitro-o-cresol	77		76		10-130	1		50
NDPA/DPA	63		62		36-157	2		50
4-Bromophenyl phenyl ether	65		67		40-140	3		50
Hexachlorobenzene	70		69		40-140	1		50
Pentachlorophenol	68		65		17-109	5		50
Atrazine	65		64		40-140	2		50
Phenanthrene	62		59		40-140	5		50
Anthracene	63		61		40-140	3		50
Carbazole	61		60		54-128	2		50
Di-n-butylphthalate	66		63		40-140	5		50
Fluoranthene	64		61		40-140	5		50
Pyrene	63		61		35-142	3		50
Butyl benzyl phthalate	70		69		40-140	1		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 44-49 Batch: WG2133221-2 WG2133221-3								
3,3'-Dichlorobenzidine	49		50		40-140	2		50
Benzo(a)anthracene	60		59		40-140	2		50
Chrysene	61		60		40-140	2		50
Bis(2-ethylhexyl)phthalate	65		65		40-140	0		50
Di-n-octylphthalate	69		68		40-140	1		50
Benzo(b)fluoranthene	67		66		40-140	2		50
Benzo(k)fluoranthene	66		65		40-140	2		50
Benzo(a)pyrene	69		69		40-140	0		50
Indeno(1,2,3-cd)pyrene	68		66		40-140	3		50
Dibenzo(a,h)anthracene	67		66		40-140	2		50
Benzo(ghi)perylene	65		64		40-140	2		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	59		56		25-120
Phenol-d6	56		55		10-120
Nitrobenzene-d5	55		53		23-120
2-Fluorobiphenyl	61		59		30-120
2,4,6-Tribromophenol	73		73		10-136
4-Terphenyl-d14	62		59		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 51-54 Batch: WG2133467-2 WG2133467-3								
Benzaldehyde	68		71		40-140	4		50
Phenol	54		57		26-90	5		50
Bis(2-chloroethyl)ether	54		56		40-140	4		50
2-Chlorophenol	57		59		25-102	3		50
2-Methylphenol	56		59		30-130	5		50
Bis(2-chloroisopropyl)ether	**38**	Q	40		40-140	5		50
Acetophenone	64		68		14-144	6		50
1,4-Dioxane	43		48		30-130	11		50
n-Nitrosodi-n-propylamine	55		57		32-121	4		50
3-Methylphenol/4-Methylphenol	55		60		30-130	9		50
Hexachloroethane	58		62		40-140	7		50
Nitrobenzene	55		57		40-140	4		50
Isophorone	52		56		40-140	7		50
2-Nitrophenol	60		63		30-130	5		50
2,4-Dimethylphenol	56		60		30-130	7		50
Bis(2-chloroethoxy)methane	54		58		40-117	7		50
2,4-Dichlorophenol	57		61		30-130	7		50
Naphthalene	63		64		40-140	2		50
4-Chloroaniline	40		45		40-140	12		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 51-54 Batch: WG2133467-2 WG2133467-3								
Hexachlorobutadiene	68		68		40-140	0		50
Caprolactam	49		54		15-130	10		50
p-Chloro-m-cresol	59		64		26-103	8		50
2-Methylnaphthalene	61		64		40-140	5		50
Hexachlorocyclopentadiene	69		73		40-140	6		50
1,2,4,5-Tetrachlorobenzene	67		68		40-117	1		50
2,4,6-Trichlorophenol	61		65		30-130	6		50
2,4,5-Trichlorophenol	62		66		30-130	6		50
Biphenyl	62		65		37-127	5		50
2-Chloronaphthalene	58		61		40-140	5		50
2-Nitroaniline	56		62		47-134	10		50
Dimethyl phthalate	55		60		40-140	9		50
2,6-Dinitrotoluene	56		60		40-140	7		50
Acenaphthylene	57		60		40-140	5		50
3-Nitroaniline	43		50		26-129	15		50
Acenaphthene	68		68		31-137	0		50
2,4-Dinitrophenol	62		67		4-130	8		50
4-Nitrophenol	64		70		11-114	9		50
2,4-Dinitrotoluene	64		69		40-132	8		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 51-54 Batch: WG2133467-2 WG2133467-3								
Dibenzofuran	65		69		40-140	6		50
2,3,4,6-Tetrachlorophenol	71		76		58-132	7		50
Diethyl phthalate	63		68		40-140	8		50
Fluorene	64		67		40-140	5		50
4-Chlorophenyl phenyl ether	66		69		40-140	4		50
4-Nitroaniline	56		62		41-125	10		50
4,6-Dinitro-o-cresol	70		77		10-130	10		50
NDPA/DPA	62		67		36-157	8		50
4-Bromophenyl phenyl ether	66		71		40-140	7		50
Hexachlorobenzene	69		74		40-140	7		50
Pentachlorophenol	62		70		17-109	12		50
Atrazine	62		69		40-140	11		50
Phenanthrene	64		67		40-140	5		50
Anthracene	65		67		40-140	3		50
Carbazole	62		64		54-128	3		50
Di-n-butylphthalate	65		70		40-140	7		50
Fluoranthene	62		65		40-140	5		50
Pyrene	61		64		35-142	5		50
Butyl benzyl phthalate	66		70		40-140	6		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 51-54 Batch: WG2133467-2 WG2133467-3								
3,3'-Dichlorobenzidine	56		60		40-140	7		50
Benzo(a)anthracene	65		68		40-140	5		50
Chrysene	63		67		40-140	6		50
Bis(2-ethylhexyl)phthalate	74		79		40-140	7		50
Di-n-octylphthalate	74		80		40-140	8		50
Benzo(b)fluoranthene	66		70		40-140	6		50
Benzo(k)fluoranthene	73		73		40-140	0		50
Benzo(a)pyrene	73		75		40-140	3		50
Indeno(1,2,3-cd)pyrene	75		78		40-140	4		50
Dibenzo(a,h)anthracene	74		76		40-140	3		50
Benzo(ghi)perylene	73		76		40-140	4		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	56		59		25-120
Phenol-d6	55		57		10-120
Nitrobenzene-d5	54		57		23-120
2-Fluorobiphenyl	59		62		30-120
2,4,6-Tribromophenol	75		83		10-136
4-Terphenyl-d14	62		66		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 54,56 Batch: WG2134120-2 WG2134120-3								
Benzaldehyde	89		95		40-140	7		50
Phenol	75		76		26-90	1		50
Bis(2-chloroethyl)ether	70		70		40-140	0		50
2-Chlorophenol	75		77		25-102	3		50
2-Methylphenol	80		80		30-130	0		50
Bis(2-chloroisopropyl)ether	50		51		40-140	2		50
Acetophenone	90		92		14-144	2		50
1,4-Dioxane	48		50		30-130	4		50
n-Nitrosodi-n-propylamine	75		76		32-121	1		50
3-Methylphenol/4-Methylphenol	80		82		30-130	2		50
Hexachloroethane	72		76		40-140	5		50
Nitrobenzene	73		74		40-140	1		50
Isophorone	75		77		40-140	3		50
2-Nitrophenol	83		84		30-130	1		50
2,4-Dimethylphenol	82		84		30-130	2		50
Bis(2-chloroethoxy)methane	76		77		40-117	1		50
2,4-Dichlorophenol	85		85		30-130	0		50
Naphthalene	79		81		40-140	3		50
4-Chloroaniline	64		68		40-140	6		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 54,56 Batch: WG2134120-2 WG2134120-3								
Hexachlorobutadiene	82		86		40-140	5		50
Caprolactam	71		86		15-130	19		50
p-Chloro-m-cresol	93		90		26-103	3		50
2-Methylnaphthalene	84		84		40-140	0		50
Hexachlorocyclopentadiene	90		95		40-140	5		50
1,2,4,5-Tetrachlorobenzene	90		93		40-117	3		50
2,4,6-Trichlorophenol	95		94		30-130	1		50
2,4,5-Trichlorophenol	99		97		30-130	2		50
Biphenyl	90		91		37-127	1		50
2-Chloronaphthalene	84		84		40-140	0		50
2-Nitroaniline	92		92		47-134	0		50
Dimethyl phthalate	90		89		40-140	1		50
2,6-Dinitrotoluene	92		92		40-140	0		50
Acenaphthylene	86		86		40-140	0		50
3-Nitroaniline	71		76		26-129	7		50
Acenaphthene	88		89		31-137	1		50
2,4-Dinitrophenol	96		96		4-130	0		50
4-Nitrophenol	112		105		11-114	6		50
2,4-Dinitrotoluene	100		98		40-132	2		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 54,56 Batch: WG2134120-2 WG2134120-3								
Dibenzofuran	90		89		40-140	1		50
2,3,4,6-Tetrachlorophenol	106		104		58-132	2		50
Diethyl phthalate	94		96		40-140	2		50
Fluorene	90		91		40-140	1		50
4-Chlorophenyl phenyl ether	91		93		40-140	2		50
4-Nitroaniline	99		98		41-125	1		50
4,6-Dinitro-o-cresol	120		118		10-130	2		50
NDPA/DPA	93		93		36-157	0		50
4-Bromophenyl phenyl ether	98		94		40-140	4		50
Hexachlorobenzene	101		103		40-140	2		50
Pentachlorophenol	101		101		17-109	0		50
Atrazine	98		97		40-140	1		50
Phenanthrene	88		87		40-140	1		50
Anthracene	90		89		40-140	1		50
Carbazole	92		89		54-128	3		50
Di-n-butylphthalate	95		94		40-140	1		50
Fluoranthene	97		93		40-140	4		50
Pyrene	96		92		35-142	4		50
Butyl benzyl phthalate	114		108		40-140	5		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 54,56 Batch: WG2134120-2 WG2134120-3								
3,3'-Dichlorobenzidine	72		80		40-140	11		50
Benzo(a)anthracene	89		87		40-140	2		50
Chrysene	86		86		40-140	0		50
Bis(2-ethylhexyl)phthalate	99		99		40-140	0		50
Di-n-octylphthalate	105		104		40-140	1		50
Benzo(b)fluoranthene	101		95		40-140	6		50
Benzo(k)fluoranthene	92		98		40-140	6		50
Benzo(a)pyrene	102		102		40-140	0		50
Indeno(1,2,3-cd)pyrene	92		92		40-140	0		50
Dibenzo(a,h)anthracene	93		93		40-140	0		50
Benzo(ghi)perylene	88		86		40-140	2		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	72		75		25-120
Phenol-d6	73		75		10-120
Nitrobenzene-d5	72		75		23-120
2-Fluorobiphenyl	82		84		30-120
2,4,6-Tribromophenol	112		111		10-136
4-Terphenyl-d14	96		94		18-120

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG2129656-4 WG2129656-5 QC Sample: L2565410-04 Client ID: FROG-SS-104 (13-15)												
Benzaldehyde	ND	1.62	1.3	80		1.4	85		40-140	7		50
Phenol	ND	1.62	1.2	74		1.3	79		26-90	8		50
Bis(2-chloroethyl)ether	ND	1.62	1.1	68		1.2	73		40-140	9		50
2-Chlorophenol	ND	1.62	1.4	86		1.5	91		25-102	7		50
2-Methylphenol	ND	1.62	1.3	80		1.4	85		30-130	7		50
Bis(2-chloroisopropyl)ether	ND	1.62	1.2	74		1.3	79		40-140	8		50
Acetophenone	ND	1.62	1.4	86		1.5	91		14-144	7		50
1,4-Dioxane	ND	1.62	0.84	52		0.86	52		30-130	2		50
n-Nitrosodi-n-propylamine	ND	1.62	1.1	68		1.2	73		32-121	9		50
3-Methylphenol/4-Methylphenol	ND	1.62	1.4	86		1.4	85		30-130	0		50
Hexachloroethane	ND	1.62	1.2	74		1.3	79		40-140	8		50
Nitrobenzene	ND	1.62	1.2	74		1.3	79		40-140	8		50
Isophorone	ND	1.62	1.2	74		1.3	79		40-140	8		50
2-Nitrophenol	ND	1.62	1.6	99		1.8	110		30-130	12		50
2,4-Dimethylphenol	ND	1.62	1.4	86		1.5	91		30-130	7		50
Bis(2-chloroethoxy)methane	ND	1.62	1.2	74		1.2	73		40-117	0		50
2,4-Dichlorophenol	ND	1.62	1.6	99		1.7	100		30-130	6		50
Naphthalene	ND	1.62	1.4	86		1.5	91		40-140	7		50
4-Chloroaniline	ND	1.62	1.0	62		1.1	67		40-140	10		50

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Client ID: FROG-SS-104 (13-15)	Associated sample(s): 01-13		QC Batch ID: WG2129656-4			WG2129656-5			QC Sample: L2565410-04			
Hexachlorobutadiene	ND	1.62	1.6	99		1.7	100		40-140	6		50
Caprolactam	ND	1.62	1.3	80		1.5	91		15-130	14		50
p-Chloro-m-cresol	ND	1.62	1.5	92		1.6	97		26-103	6		50
2-Methylnaphthalene	ND	1.62	1.5	92		1.6	97		40-140	6		50
Hexachlorocyclopentadiene	ND	1.62	1.5	92		1.7	100		40-140	13		50
1,2,4,5-Tetrachlorobenzene	ND	1.62	1.7	100		1.9	**120**	Q	40-117	11		50
2,4,6-Trichlorophenol	ND	1.62	1.7	100		1.8	110		30-130	6		50
2,4,5-Trichlorophenol	ND	1.62	1.8	110		1.9	120		30-130	5		50
Biphenyl	ND	1.62	1.6	99		1.7	100		37-127	6		50
2-Chloronaphthalene	ND	1.62	1.5	92		1.6	97		40-140	6		50
2-Nitroaniline	ND	1.62	1.7	100		1.8	110		47-134	6		50
Dimethyl phthalate	ND	1.62	1.5	92		1.6	97		40-140	6		50
2,6-Dinitrotoluene	ND	1.62	1.8	110		1.8	110		40-140	0		50
Acenaphthylene	ND	1.62	1.5	92		1.6	97		40-140	6		50
3-Nitroaniline	ND	1.62	1.2	74		1.3	79		26-129	8		50
Acenaphthene	ND	1.62	1.4	86		1.4	85		31-137	0		50
2,4-Dinitrophenol	ND	1.62	0.45J	28		0.48J	29		4-130	6		50
4-Nitrophenol	ND	1.62	1.2	74		1.4	85		11-114	15		50
2,4-Dinitrotoluene	ND	1.62	1.3	80		1.4	85		40-132	7		50

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG2129656-4 WG2129656-5 QC Sample: L2565410-04 Client ID: FROG-SS-104 (13-15)												
Dibenzofuran	ND	1.62	1.4	86		1.5	91		40-140	7		50
2,3,4,6-Tetrachlorophenol	ND	1.62	1.6	99		1.8	110		58-132	12		50
Diethyl phthalate	ND	1.62	1.4	86		1.6	97		40-140	13		50
Fluorene	ND	1.62	1.4	86		1.5	91		40-140	7		50
4-Chlorophenyl phenyl ether	ND	1.62	1.5	92		1.6	97		40-140	6		50
4-Nitroaniline	ND	1.62	1.5	92		1.6	97		41-125	6		50
4,6-Dinitro-o-cresol	ND	1.62	1.4	86		1.5	91		10-130	7		50
NDPA/DPA	ND	1.62	1.5	92		1.6	97		36-157	6		50
4-Bromophenyl phenyl ether	ND	1.62	1.6	99		1.7	100		40-140	6		50
Hexachlorobenzene	ND	1.62	1.6	99		1.7	100		40-140	6		50
Pentachlorophenol	ND	1.62	1.4	86		1.5	91		17-109	7		50
Atrazine	ND	1.62	1.5	92		1.6	97		40-140	6		50
Phenanthrene	ND	1.62	1.3	80		1.4	85		40-140	7		50
Anthracene	ND	1.62	1.4	86		1.5	91		40-140	7		50
Carbazole	ND	1.62	1.3	80		1.4	85		54-128	7		50
Di-n-butylphthalate	ND	1.62	1.4	86		1.6	97		40-140	13		50
Fluoranthene	ND	1.62	1.4	86		1.6	97		40-140	13		50
Pyrene	ND	1.62	1.4	86		1.5	91		35-142	7		50
Butyl benzyl phthalate	ND	1.62	1.3	80		1.5	91		40-140	14		50

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG2129656-4 WG2129656-5 QC Sample: L2565410-04 Client ID: FROG-SS-104 (13-15)												
3,3'-Dichlorobenzidine	ND	1.62	1.4	86		1.4	85		40-140	0		50
Benzo(a)anthracene	ND	1.62	1.4	86		1.6	97		40-140	13		50
Chrysene	ND	1.62	1.5	92		1.6	97		40-140	6		50
Bis(2-ethylhexyl)phthalate	ND	1.62	1.5	92		1.7	100		40-140	13		50
Di-n-octylphthalate	ND	1.62	1.6	99		1.8	110		40-140	12		50
Benzo(b)fluoranthene	ND	1.62	1.5	92		1.7	100		40-140	13		50
Benzo(k)fluoranthene	ND	1.62	1.5	92		1.6	97		40-140	6		50
Benzo(a)pyrene	ND	1.62	1.5	92		1.7	100		40-140	13		50
Indeno(1,2,3-cd)pyrene	ND	1.62	1.5	92		1.7	100		40-140	13		50
Dibenzo(a,h)anthracene	ND	1.62	1.4	86		1.6	97		40-140	13		50
Benzo(ghi)perylene	ND	1.62	1.4	86		1.6	97		40-140	13		50

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,4,6-Tribromophenol	105		107		10-136
2-Fluorobiphenyl	89		92		30-120
2-Fluorophenol	85		87		25-120
4-Terphenyl-d14	90		94		18-120
Nitrobenzene-d5	75		79		23-120
Phenol-d6	76		78		10-120

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 15-26 QC Batch ID: WG2129751-4 WG2129751-5 QC Sample: L2565410-25 Client ID: FROG-SS-121 (22-24)												
Benzaldehyde	ND	1.54	1.3	84		1.0	64		40-140	26		50
Phenol	ND	1.54	1.2	78		1.0	64		26-90	18		50
Bis(2-chloroethyl)ether	ND	1.54	1.3	84		1.1	70		40-140	17		50
2-Chlorophenol	ND	1.54	1.3	84		1.1	70		25-102	17		50
2-Methylphenol	ND	1.54	1.2	78		1.1	70		30-130	9		50
Bis(2-chloroisopropyl)ether	ND	1.54	1.9	120		1.6	100		40-140	17		50
Acetophenone	ND	1.54	1.4	91		1.2	77		14-144	15		50
1,4-Dioxane	ND	1.54	0.98	63		0.75	48		30-130	27		50
n-Nitrosodi-n-propylamine	ND	1.54	1.5	97		1.3	83		32-121	14		50
3-Methylphenol/4-Methylphenol	ND	1.54	1.3	84		1.2	77		30-130	8		50
Hexachloroethane	ND	1.54	1.4	91		1.1	70		40-140	24		50
Nitrobenzene	ND	1.54	1.4	91		1.2	77		40-140	15		50
Isophorone	ND	1.54	1.4	91		1.2	77		40-140	15		50
2-Nitrophenol	ND	1.54	1.7	110		1.5	96		30-130	13		50
2,4-Dimethylphenol	ND	1.54	1.2	78		1.1	70		30-130	9		50
Bis(2-chloroethoxy)methane	ND	1.54	1.3	84		1.2	77		40-117	8		50
2,4-Dichlorophenol	ND	1.54	1.3	84		1.2	77		30-130	8		50
Naphthalene	ND	1.54	1.2	78		1.0	64		40-140	18		50
4-Chloroaniline	ND	1.54	1.0	65		1.1	70		40-140	10		50

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 15-26 QC Batch ID: WG2129751-4 WG2129751-5 QC Sample: L2565410-25 Client ID: FROG-SS-121 (22-24)												
Hexachlorobutadiene	ND	1.54	1.1	71		0.92	59		40-140	18		50
Caprolactam	ND	1.54	1.5	97		1.4	90		15-130	7		50
p-Chloro-m-cresol	ND	1.54	1.3	84		1.2	77		26-103	8		50
2-Methylnaphthalene	ND	1.54	1.2	78		1.1	70		40-140	9		50
Hexachlorocyclopentadiene	ND	1.54	1.0	65		0.89	57		40-140	12		50
1,2,4,5-Tetrachlorobenzene	ND	1.54	1.1	71		1.0	64		40-117	10		50
2,4,6-Trichlorophenol	ND	1.54	1.3	84		1.2	77		30-130	8		50
2,4,5-Trichlorophenol	ND	1.54	1.3	84		1.2	77		30-130	8		50
Biphenyl	ND	1.54	1.2	78		1.1	70		37-127	9		50
2-Chloronaphthalene	ND	1.54	1.2	78		1.1	70		40-140	9		50
2-Nitroaniline	ND	1.54	1.4	91		1.4	90		47-134	0		50
Dimethyl phthalate	ND	1.54	1.2	78		1.1	70		40-140	9		50
2,6-Dinitrotoluene	ND	1.54	1.4	91		1.3	83		40-140	7		50
Acenaphthylene	ND	1.54	1.2	78		1.1	70		40-140	9		50
3-Nitroaniline	ND	1.54	1.2	78		1.2	77		26-129	0		50
Acenaphthene	ND	1.54	1.2	78		1.2	77		31-137	0		50
2,4-Dinitrophenol	ND	1.54	0.51J	33		0.62J	40		4-130	19		50
4-Nitrophenol	ND	1.54	1.7	110		1.6	100		11-114	6		50
2,4-Dinitrotoluene	ND	1.54	1.5	97		1.4	90		40-132	7		50

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 15-26 QC Batch ID: WG2129751-4 WG2129751-5 QC Sample: L2565410-25 Client ID: FROG-SS-121 (22-24)												
Dibenzofuran	ND	1.54	1.2	78		1.1	70		40-140	9		50
2,3,4,6-Tetrachlorophenol	ND	1.54	1.4	91		1.3	83		58-132	7		50
Diethyl phthalate	ND	1.54	1.3	84		1.3	83		40-140	0		50
Fluorene	ND	1.54	1.2	78		1.2	77		40-140	0		50
4-Chlorophenyl phenyl ether	ND	1.54	1.1	71		1.1	70		40-140	0		50
4-Nitroaniline	ND	1.54	1.3	84		1.3	83		41-125	0		50
4,6-Dinitro-o-cresol	ND	1.54	1.5	97		1.5	96		10-130	0		50
NDPA/DPA	ND	1.54	1.2	78		1.2	77		36-157	0		50
4-Bromophenyl phenyl ether	ND	1.54	1.1	71		1.1	70		40-140	0		50
Hexachlorobenzene	ND	1.54	1.1	71		1.1	70		40-140	0		50
Pentachlorophenol	ND	1.54	1.0	65		1.0	64		17-109	0		50
Atrazine	ND	1.54	1.5	97		1.5	96		40-140	0		50
Phenanthrene	ND	1.54	1.2	78		1.1	70		40-140	9		50
Anthracene	ND	1.54	1.2	78		1.2	77		40-140	0		50
Carbazole	ND	1.54	1.2	78		1.2	77		54-128	0		50
Di-n-butylphthalate	ND	1.54	1.4	91		1.4	90		40-140	0		50
Fluoranthene	ND	1.54	1.2	78		1.2	77		40-140	0		50
Pyrene	ND	1.54	1.2	78		1.1	70		35-142	9		50
Butyl benzyl phthalate	ND	1.54	1.3	84		1.3	83		40-140	0		50

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 15-26 QC Batch ID: WG2129751-4 WG2129751-5 QC Sample: L2565410-25 Client ID: FROG-SS-121 (22-24)												
3,3'-Dichlorobenzidine	ND	1.54	0.94	61		0.98	63		40-140	4		50
Benzo(a)anthracene	ND	1.54	1.2	78		1.2	77		40-140	0		50
Chrysene	ND	1.54	1.2	78		1.2	77		40-140	0		50
Bis(2-ethylhexyl)phthalate	ND	1.54	1.4	91		1.4	90		40-140	0		50
Di-n-octylphthalate	ND	1.54	1.4	91		1.4	90		40-140	0		50
Benzo(b)fluoranthene	ND	1.54	1.3	84		1.3	83		40-140	0		50
Benzo(k)fluoranthene	ND	1.54	1.2	78		1.2	77		40-140	0		50
Benzo(a)pyrene	ND	1.54	1.3	84		1.2	77		40-140	8		50
Indeno(1,2,3-cd)pyrene	ND	1.54	1.3	84		1.3	83		40-140	0		50
Dibenzo(a,h)anthracene	ND	1.54	1.2	78		1.2	77		40-140	0		50
Benzo(ghi)perylene	ND	1.54	1.2	78		1.2	77		40-140	0		50

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,4,6-Tribromophenol	76		73		10-136
2-Fluorobiphenyl	65		60		30-120
2-Fluorophenol	74		61		25-120
4-Terphenyl-d14	65		62		18-120
Nitrobenzene-d5	88		75		23-120
Phenol-d6	73		64		10-120

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 28-38 QC Batch ID: WG2129893-4 WG2129893-5 QC Sample: L2565410-35 Client ID: FROG-SS-116 (18.5-20.5)												
Benzaldehyde	ND	1.6	0.98	61		1.0	62		40-140	2		50
Phenol	ND	1.6	1.2	75		1.2	74		26-90	0		50
Bis(2-chloroethyl)ether	ND	1.6	1.1	69		1.1	68		40-140	0		50
2-Chlorophenol	ND	1.6	1.1	69		1.1	68		25-102	0		50
2-Methylphenol	ND	1.6	1.1	69		1.2	74		30-130	9		50
Bis(2-chloroisopropyl)ether	ND	1.6	0.99	62		1.0	62		40-140	1		50
Acetophenone	ND	1.6	1.1	69		1.2	74		14-144	9		50
1,4-Dioxane	ND	1.6	1.1	69		1.0	62		30-130	10		50
n-Nitrosodi-n-propylamine	ND	1.6	1.2	75		1.2	74		32-121	0		50
3-Methylphenol/4-Methylphenol	ND	1.6	1.2	75		1.3	80		30-130	8		50
Hexachloroethane	ND	1.6	0.61	**38**	Q	0.69	42		40-140	12		50
Nitrobenzene	ND	1.6	1.2	75		1.2	74		40-140	0		50
Isophorone	ND	1.6	1.1	69		1.2	74		40-140	9		50
2-Nitrophenol	ND	1.6	0.77	48		0.80	49		30-130	4		50
2,4-Dimethylphenol	ND	1.6	1.1	69		1.2	74		30-130	9		50
Bis(2-chloroethoxy)methane	ND	1.6	1.1	69		1.2	74		40-117	9		50
2,4-Dichlorophenol	ND	1.6	1.1	69		1.2	74		30-130	9		50
Naphthalene	0.14	1.6	1.0	54		1.1	59		40-140	10		50
4-Chloroaniline	ND	1.6	0.92	57		1.0	62		40-140	8		50

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 28-38 QC Batch ID: WG2129893-4 WG2129893-5 QC Sample: L2565410-35 Client ID: FROG-SS-116 (18.5-20.5)												
Hexachlorobutadiene	ND	1.6	1.1	69		1.1	68		40-140	0		50
Caprolactam	ND	1.6	1.1	69		1.1	68		15-130	0		50
p-Chloro-m-cresol	ND	1.6	1.2	75		1.2	74		26-103	0		50
2-Methylnaphthalene	0.13J	1.6	1.1	69		1.1	68		40-140	0		50
Hexachlorocyclopentadiene	ND	1.6	ND	**0**	Q	ND	**0**	Q	40-140	NC		50
1,2,4,5-Tetrachlorobenzene	ND	1.6	1.1	69		1.1	68		40-117	0		50
2,4,6-Trichlorophenol	ND	1.6	1.3	81		1.3	80		30-130	0		50
2,4,5-Trichlorophenol	ND	1.6	1.3	81		1.3	80		30-130	0		50
Biphenyl	ND	1.6	1.0	62		1.1	68		37-127	10		50
2-Chloronaphthalene	ND	1.6	1.0	62		1.1	68		40-140	10		50
2-Nitroaniline	ND	1.6	1.3	81		1.3	80		47-134	0		50
Dimethyl phthalate	ND	1.6	1.1	69		1.1	68		40-140	0		50
2,6-Dinitrotoluene	ND	1.6	0.96	60		0.95	58		40-140	1		50
Acenaphthylene	ND	1.6	1.2	75		1.2	74		40-140	0		50
3-Nitroaniline	ND	1.6	1.3	81		1.3	80		26-129	0		50
Acenaphthene	0.027J	1.6	1.1	69		1.0	62		31-137	10		50
2,4-Dinitrophenol	ND	1.6	ND	**0**	Q	ND	**0**	Q	4-130	NC		50
4-Nitrophenol	ND	1.6	1.2	75		1.1	68		11-114	9		50
2,4-Dinitrotoluene	ND	1.6	0.93	58		0.88	54		40-132	6		50

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Client ID: FROG-SS-116 (18.5-20.5)	Associated sample(s): 28-38		QC Batch ID: WG2129893-4			WG2129893-5			QC Sample: L2565410-35			
Dibenzofuran	ND	1.6	1.1	69		1.1	68		40-140	0		50
2,3,4,6-Tetrachlorophenol	ND	1.6	1.3	81		1.2	74		58-132	8		50
Diethyl phthalate	ND	1.6	1.1	69		1.1	68		40-140	0		50
Fluorene	ND	1.6	1.1	69		1.1	68		40-140	0		50
4-Chlorophenyl phenyl ether	ND	1.6	1.1	69		1.1	68		40-140	0		50
4-Nitroaniline	ND	1.6	1.4	87		1.3	80		41-125	7		50
4,6-Dinitro-o-cresol	ND	1.6	0.18J	11		ND	**0**	Q	10-130	NC		50
NDPA/DPA	ND	1.6	1.1	69		1.1	68		36-157	0		50
4-Bromophenyl phenyl ether	ND	1.6	1.0	62		1.0	62		40-140	0		50
Hexachlorobenzene	ND	1.6	0.99	62		0.97	60		40-140	2		50
Pentachlorophenol	ND	1.6	1.2	75		1.2	74		17-109	0		50
Atrazine	ND	1.6	1.1	69		1.1	68		40-140	0		50
Phenanthrene	ND	1.6	1.1	69		1.0	62		40-140	10		50
Anthracene	ND	1.6	1.1	69		1.0	62		40-140	10		50
Carbazole	ND	1.6	1.1	69		1.1	68		54-128	0		50
Di-n-butylphthalate	ND	1.6	1.2	75		1.1	68		40-140	9		50
Fluoranthene	ND	1.6	1.1	69		1.0	62		40-140	10		50
Pyrene	ND	1.6	1.1	69		1.0	62		35-142	10		50
Butyl benzyl phthalate	ND	1.6	1.3	81		1.2	74		40-140	8		50

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 28-38 QC Batch ID: WG2129893-4 WG2129893-5 QC Sample: L2565410-35 Client ID: FROG-SS-116 (18.5-20.5)												
3,3'-Dichlorobenzidine	ND	1.6	1.1	69		1.1	68		40-140	0		50
Benzo(a)anthracene	ND	1.6	1.2	75		1.1	68		40-140	9		50
Chrysene	ND	1.6	1.2	75		1.1	68		40-140	9		50
Bis(2-ethylhexyl)phthalate	ND	1.6	1.4	87		1.3	80		40-140	7		50
Di-n-octylphthalate	ND	1.6	1.3	81		1.2	74		40-140	8		50
Benzo(b)fluoranthene	ND	1.6	1.1	69		1.1	68		40-140	0		50
Benzo(k)fluoranthene	ND	1.6	1.1	69		0.98	60		40-140	12		50
Benzo(a)pyrene	ND	1.6	1.2	75		1.1	68		40-140	9		50
Indeno(1,2,3-cd)pyrene	ND	1.6	1.2	75		1.2	74		40-140	0		50
Dibenzo(a,h)anthracene	ND	1.6	1.1	69		1.1	68		40-140	0		50
Benzo(ghi)perylene	0.031J	1.6	1.2	75		1.0	62		40-140	18		50

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,4,6-Tribromophenol	65		61		10-136
2-Fluorobiphenyl	65		65		30-120
2-Fluorophenol	65		67		25-120
4-Terphenyl-d14	60		56		18-120
Nitrobenzene-d5	73		76		23-120
Phenol-d6	66		69		10-120

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 44-49 QC Batch ID: WG2133221-4 WG2133221-5 QC Sample: L2565410-46 Client ID: FROG-SS-122 (30-32)												
Benzaldehyde	ND	1.94	1.4	72		1.5	77		40-140	7		50
Phenol	ND	1.94	1.0	52		1.0	51		26-90	0		50
Bis(2-chloroethyl)ether	ND	1.94	1.1	57		1.2	62		40-140	9		50
2-Chlorophenol	ND	1.94	1.2	62		1.2	62		25-102	0		50
2-Methylphenol	ND	1.94	1.0	52		1.0	51		30-130	0		50
Bis(2-chloroisopropyl)ether	ND	1.94	0.78	40		0.80	41		40-140	3		50
Acetophenone	ND	1.94	1.4	72		1.4	72		14-144	0		50
1,4-Dioxane	ND	1.94	0.89	46		0.92	47		30-130	3		50
n-Nitrosodi-n-propylamine	ND	1.94	1.1	57		1.2	62		32-121	9		50
3-Methylphenol/4-Methylphenol	ND	1.94	1.0	52		1.0	51		30-130	0		50
Hexachloroethane	ND	1.94	1.2	62		1.3	67		40-140	8		50
Nitrobenzene	ND	1.94	1.1	57		1.1	57		40-140	0		50
Isophorone	ND	1.94	1.1	57		1.1	57		40-140	0		50
2-Nitrophenol	ND	1.94	1.3	67		1.3	67		30-130	0		50
2,4-Dimethylphenol	ND	1.94	1.0	52		1.0	51		30-130	0		50
Bis(2-chloroethoxy)methane	ND	1.94	1.1	57		1.2	62		40-117	9		50
2,4-Dichlorophenol	ND	1.94	1.2	62		1.2	62		30-130	0		50
Naphthalene	ND	1.94	1.3	67		1.3	67		40-140	0		50
4-Chloroaniline	ND	1.94	0.52	**27**	Q	0.56	**29**	Q	40-140	7		50

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 44-49 QC Batch ID: WG2133221-4 WG2133221-5 QC Sample: L2565410-46 Client ID: FROG-SS-122 (30-32)												
Hexachlorobutadiene	ND	1.94	1.4	72		1.5	77		40-140	7		50
Caprolactam	ND	1.94	0.95	49		0.97	50		15-130	2		50
p-Chloro-m-cresol	ND	1.94	1.1	57		1.2	62		26-103	9		50
2-Methylnaphthalene	ND	1.94	1.3	67		1.3	67		40-140	0		50
Hexachlorocyclopentadiene	ND	1.94	1.4	72		1.4	72		40-140	0		50
1,2,4,5-Tetrachlorobenzene	ND	1.94	1.4	72		1.4	72		40-117	0		50
2,4,6-Trichlorophenol	ND	1.94	1.2	62		1.3	67		30-130	8		50
2,4,5-Trichlorophenol	ND	1.94	1.3	67		1.3	67		30-130	0		50
Biphenyl	ND	1.94	1.3	67		1.3	67		37-127	0		50
2-Chloronaphthalene	ND	1.94	1.2	62		1.2	62		40-140	0		50
2-Nitroaniline	ND	1.94	1.2	62		1.3	67		47-134	8		50
Dimethyl phthalate	ND	1.94	1.2	62		1.2	62		40-140	0		50
2,6-Dinitrotoluene	ND	1.94	1.2	62		1.2	62		40-140	0		50
Acenaphthylene	ND	1.94	1.2	62		1.2	62		40-140	0		50
3-Nitroaniline	ND	1.94	0.96	50		1.0	51		26-129	4		50
Acenaphthene	ND	1.94	1.3	67		1.3	67		31-137	0		50
2,4-Dinitrophenol	ND	1.94	0.24J	12		0.25J	13		4-130	4		50
4-Nitrophenol	ND	1.94	1.1	57		1.2	62		11-114	9		50
2,4-Dinitrotoluene	ND	1.94	1.3	67		1.3	67		40-132	0		50

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 44-49 QC Batch ID: WG2133221-4 WG2133221-5 QC Sample: L2565410-46 Client ID: FROG-SS-122 (30-32)												
Dibenzofuran	ND	1.94	1.3	67		1.3	67		40-140	0		50
2,3,4,6-Tetrachlorophenol	ND	1.94	1.4	72		1.4	72		58-132	0		50
Diethyl phthalate	ND	1.94	1.3	67		1.3	67		40-140	0		50
Fluorene	ND	1.94	1.3	67		1.3	67		40-140	0		50
4-Chlorophenyl phenyl ether	ND	1.94	1.3	67		1.3	67		40-140	0		50
4-Nitroaniline	ND	1.94	1.2	62		1.1	57		41-125	9		50
4,6-Dinitro-o-cresol	ND	1.94	0.74	38		0.80	41		10-130	8		50
NDPA/DPA	ND	1.94	1.2	62		1.2	62		36-157	0		50
4-Bromophenyl phenyl ether	ND	1.94	1.3	67		1.3	67		40-140	0		50
Hexachlorobenzene	ND	1.94	1.4	72		1.4	72		40-140	0		50
Pentachlorophenol	ND	1.94	1.3	67		1.3	67		17-109	0		50
Atrazine	ND	1.94	1.3	67		1.3	67		40-140	0		50
Phenanthrene	ND	1.94	1.2	62		1.2	62		40-140	0		50
Anthracene	ND	1.94	1.3	67		1.3	67		40-140	0		50
Carbazole	ND	1.94	1.2	62		1.2	62		54-128	0		50
Di-n-butylphthalate	ND	1.94	1.3	67		1.3	67		40-140	0		50
Fluoranthene	ND	1.94	1.2	62		1.3	67		40-140	8		50
Pyrene	ND	1.94	1.2	62		1.3	67		35-142	8		50
Butyl benzyl phthalate	ND	1.94	1.4	72		1.4	72		40-140	0		50

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 44-49 QC Batch ID: WG2133221-4 WG2133221-5 QC Sample: L2565410-46 Client ID: FROG-SS-122 (30-32)												
3,3'-Dichlorobenzidine	ND	1.94	0.91	47		0.97	50		40-140	6		50
Benzo(a)anthracene	ND	1.94	1.2	62		1.2	62		40-140	0		50
Chrysene	ND	1.94	1.2	62		1.3	67		40-140	8		50
Bis(2-ethylhexyl)phthalate	ND	1.94	1.4	72		1.3	67		40-140	7		50
Di-n-octylphthalate	ND	1.94	1.5	77		1.6	82		40-140	6		50
Benzo(b)fluoranthene	ND	1.94	1.4	72		1.5	77		40-140	7		50
Benzo(k)fluoranthene	ND	1.94	1.4	72		1.4	72		40-140	0		50
Benzo(a)pyrene	ND	1.94	1.4	72		1.5	77		40-140	7		50
Indeno(1,2,3-cd)pyrene	ND	1.94	1.3	67		1.3	67		40-140	0		50
Dibenzo(a,h)anthracene	ND	1.94	1.3	67		1.3	67		40-140	0		50
Benzo(ghi)perylene	ND	1.94	1.2	62		1.2	62		40-140	0		50

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,4,6-Tribromophenol	70		72		10-136
2-Fluorobiphenyl	61		62		30-120
2-Fluorophenol	54		55		25-120
4-Terphenyl-d14	61		62		18-120
Nitrobenzene-d5	54		56		23-120
Phenol-d6	51		52		10-120

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Semivolatile Organics by GC/MS - Westborough Lab Client ID: FROG-SS-125 (FLOOR)	Associated sample(s): 51-54			QC Batch ID: WG2133467-4		WG2133467-5			QC Sample: L2565410-52			
Benzaldehyde	ND	1.32	0.91	69		1.0	76		40-140	9		50
Phenol	ND	1.32	0.76	58		0.89	68		26-90	16		50
Bis(2-chloroethyl)ether	ND	1.32	0.69	52		0.78	59		40-140	12		50
2-Chlorophenol	ND	1.32	0.74	56		0.87	66		25-102	16		50
2-Methylphenol	ND	1.32	0.77	58		0.91	69		30-130	17		50
Bis(2-chloroisopropyl)ether	ND	1.32	0.49	**37**	Q	0.56	42		40-140	13		50
Acetophenone	ND	1.32	0.88	67		1.0	76		14-144	13		50
1,4-Dioxane	ND	1.32	0.56	42		0.58	44		30-130	4		50
n-Nitrosodi-n-propylamine	ND	1.32	0.70	53		0.84	64		32-121	18		50
3-Methylphenol/4-Methylphenol	ND	1.32	0.78	59		0.90	68		30-130	14		50
Hexachloroethane	ND	1.32	0.73	55		0.86	65		40-140	16		50
Nitrobenzene	ND	1.32	0.70	53		0.83	63		40-140	17		50
Isophorone	ND	1.32	0.72	55		0.84	64		40-140	15		50
2-Nitrophenol	ND	1.32	0.80	61		0.94	71		30-130	16		50
2,4-Dimethylphenol	ND	1.32	0.78	59		0.91	69		30-130	15		50
Bis(2-chloroethoxy)methane	ND	1.32	0.71	54		0.83	63		40-117	16		50
2,4-Dichlorophenol	ND	1.32	0.78	59		0.95	72		30-130	20		50
Naphthalene	0.045	1.32	0.85	61		0.99	72		40-140	15		50
4-Chloroaniline	ND	1.32	0.46	**35**	Q	0.52	**39**	Q	40-140	12		50

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Client ID: FROG-SS-125 (FLOOR)	Associated sample(s): 51-54		QC Batch ID: WG2133467-4			WG2133467-5			QC Sample: L2565410-52			
Hexachlorobutadiene	ND	1.32	0.87	66		1.0	76		40-140	14		50
Caprolactam	ND	1.32	1.1	83		1.2	91		15-130	9		50
p-Chloro-m-cresol	ND	1.32	0.85	64		1.0	76		26-103	16		50
2-Methylnaphthalene	ND	1.32	0.85	64		0.97	74		40-140	13		50
Hexachlorocyclopentadiene	ND	1.32	0.43J	**33**	Q	0.45J	**34**	Q	40-140	5		50
1,2,4,5-Tetrachlorobenzene	ND	1.32	0.91	69		1.0	76		40-117	9		50
2,4,6-Trichlorophenol	ND	1.32	0.82	62		0.98	74		30-130	18		50
2,4,5-Trichlorophenol	ND	1.32	0.89	67		1.0	76		30-130	12		50
Biphenyl	ND	1.32	0.88	67		1.0	76		37-127	13		50
2-Chloronaphthalene	ND	1.32	0.83	63		0.95	72		40-140	13		50
2-Nitroaniline	ND	1.32	0.92	70		1.0	76		47-134	8		50
Dimethyl phthalate	ND	1.32	0.82	62		0.97	74		40-140	17		50
2,6-Dinitrotoluene	ND	1.32	0.85	64		0.98	74		40-140	14		50
Acenaphthylene	ND	1.32	0.83	63		0.94	71		40-140	12		50
3-Nitroaniline	ND	1.32	0.74	56		0.88	67		26-129	17		50
Acenaphthene	ND	1.32	0.86	65		1.0	76		31-137	15		50
2,4-Dinitrophenol	ND	1.32	0.083J	6		0.085J	6		4-130	2		50
4-Nitrophenol	ND	1.32	0.70	53		0.86	65		11-114	21		50
2,4-Dinitrotoluene	ND	1.32	0.85	64		1.0	76		40-132	16		50

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 51-54 QC Batch ID: WG2133467-4 WG2133467-5 QC Sample: L2565410-52 Client ID: FROG-SS-125 (FLOOR)												
Dibenzofuran	ND	1.32	0.86	65		1.0	76		40-140	15		50
2,3,4,6-Tetrachlorophenol	ND	1.32	0.68	**51**	Q	0.87	66		58-132	25		50
Diethyl phthalate	ND	1.32	0.89	67		1.0	76		40-140	12		50
Fluorene	ND	1.32	0.88	67		1.0	76		40-140	13		50
4-Chlorophenyl phenyl ether	ND	1.32	0.89	67		1.1	83		40-140	21		50
4-Nitroaniline	ND	1.32	0.83	63		1.0	76		41-125	19		50
4,6-Dinitro-o-cresol	ND	1.32	0.22J	17		0.23J	17		10-130	4		50
NDPA/DPA	ND	1.32	0.89	67		1.0	76		36-157	12		50
4-Bromophenyl phenyl ether	ND	1.32	0.96	73		1.1	83		40-140	14		50
Hexachlorobenzene	ND	1.32	1.0	76		1.2	91		40-140	18		50
Pentachlorophenol	ND	1.32	0.39	30		0.49	37		17-109	23		50
Atrazine	ND	1.32	0.99	75		1.1	83		40-140	11		50
Phenanthrene	0.058J	1.32	0.88	67		1.0	76		40-140	13		50
Anthracene	ND	1.32	0.84	64		0.97	74		40-140	14		50
Carbazole	ND	1.32	0.86	65		1.0	76		54-128	15		50
Di-n-butylphthalate	ND	1.32	0.97	73		1.1	83		40-140	13		50
Fluoranthene	0.060J	1.32	0.98	74		1.1	83		40-140	12		50
Pyrene	0.052J	1.32	0.95	72		1.1	83		35-142	15		50
Butyl benzyl phthalate	ND	1.32	1.1	83		1.3	99		40-140	17		50

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Client ID: FROG-SS-125 (FLOOR)	Associated sample(s): 51-54		QC Batch ID: WG2133467-4			WG2133467-5			QC Sample: L2565410-52			
3,3'-Dichlorobenzidine	ND	1.32	0.63	48		0.76	58		40-140	19		50
Benzo(a)anthracene	ND	1.32	0.80	61		0.95	72		40-140	17		50
Chrysene	ND	1.32	0.85	64		0.97	74		40-140	13		50
Bis(2-ethylhexyl)phthalate	ND	1.32	1.2	91		1.4	110		40-140	15		50
Di-n-octylphthalate	ND	1.32	1.1	83		1.3	99		40-140	17		50
Benzo(b)fluoranthene	ND	1.32	0.86	65		0.96	73		40-140	11		50
Benzo(k)fluoranthene	ND	1.32	0.84	64		1.0	76		40-140	17		50
Benzo(a)pyrene	ND	1.32	0.84	64		1.0	76		40-140	17		50
Indeno(1,2,3-cd)pyrene	ND	1.32	0.79	60		0.94	71		40-140	17		50
Dibenzo(a,h)anthracene	ND	1.32	0.80	61		0.96	73		40-140	18		50
Benzo(ghi)perylene	ND	1.32	0.74	56		0.90	68		40-140	20		50

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,4,6-Tribromophenol	80		95		10-136
2-Fluorobiphenyl	64		71		30-120
2-Fluorophenol	57		65		25-120
4-Terphenyl-d14	73		82		18-120
Nitrobenzene-d5	56		62		23-120
Phenol-d6	56		64		10-120

PCBS

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-01
Client ID: FROG-SS-103 (0-2)
Sample Location: CARLISLE, PA

Date Collected: 10/15/25 14:45
Date Received: 10/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/20/25 10:03
Analyst: MHG
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 10/19/25 07:21
Cleanup Method: EPA 3665A
Cleanup Date: 10/19/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/19/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0528	0.00469	1	A
Aroclor 1221	ND		mg/kg	0.0528	0.00529	1	A
Aroclor 1232	ND		mg/kg	0.0528	0.0112	1	A
Aroclor 1242	ND		mg/kg	0.0528	0.00712	1	A
Aroclor 1248	ND		mg/kg	0.0528	0.00792	1	A
Aroclor 1254	0.0114	J	mg/kg	0.0528	0.00578	1	B
Aroclor 1260	ND	IP	mg/kg	0.0528	0.00976	1	A
Aroclor 1262	ND		mg/kg	0.0528	0.00670	1	A
Aroclor 1268	ND		mg/kg	0.0528	0.00547	1	A
PCBs, Total	0.0114	J	mg/kg	0.0528	0.00469	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	48		30-150	A
Decachlorobiphenyl	75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	49		30-150	B
Decachlorobiphenyl	81		30-150	B

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-02
Client ID: FROG-SS-103 (28-30)
Sample Location: CARLISLE, PA

Date Collected: 10/15/25 15:13
Date Received: 10/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/20/25 10:11
Analyst: MHG
Percent Solids: 70%

Extraction Method: EPA 3546
Extraction Date: 10/19/25 07:21
Cleanup Method: EPA 3665A
Cleanup Date: 10/19/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/19/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0675	0.00600	1	A
Aroclor 1221	ND		mg/kg	0.0675	0.00676	1	A
Aroclor 1232	ND		mg/kg	0.0675	0.0143	1	A
Aroclor 1242	ND		mg/kg	0.0675	0.00910	1	A
Aroclor 1248	ND		mg/kg	0.0675	0.0101	1	A
Aroclor 1254	ND		mg/kg	0.0675	0.00739	1	A
Aroclor 1260	ND		mg/kg	0.0675	0.0125	1	A
Aroclor 1262	ND		mg/kg	0.0675	0.00857	1	A
Aroclor 1268	ND		mg/kg	0.0675	0.00699	1	A
PCBs, Total	ND		mg/kg	0.0675	0.00600	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	46		30-150	A
Decachlorobiphenyl	97		30-150	A
2,4,5,6-Tetrachloro-m-xylene	45		30-150	B
Decachlorobiphenyl	104		30-150	B

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-03
Client ID: FROG-SS-104 (0-2)
Sample Location: CARLISLE, PA

Date Collected: 10/15/25 13:43
Date Received: 10/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/20/25 10:18
Analyst: MHG
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 10/19/25 07:21
Cleanup Method: EPA 3665A
Cleanup Date: 10/19/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/19/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0596	0.00529	1	A
Aroclor 1221	ND		mg/kg	0.0596	0.00597	1	A
Aroclor 1232	ND		mg/kg	0.0596	0.0126	1	A
Aroclor 1242	ND		mg/kg	0.0596	0.00803	1	A
Aroclor 1248	ND		mg/kg	0.0596	0.00893	1	A
Aroclor 1254	ND		mg/kg	0.0596	0.00652	1	A
Aroclor 1260	ND		mg/kg	0.0596	0.0110	1	A
Aroclor 1262	ND		mg/kg	0.0596	0.00756	1	A
Aroclor 1268	ND		mg/kg	0.0596	0.00617	1	A
PCBs, Total	ND		mg/kg	0.0596	0.00529	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	45		30-150	A
Decachlorobiphenyl	74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	45		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-04
Client ID: FROG-SS-104 (13-15)
Sample Location: CARLISLE, PA

Date Collected: 10/15/25 13:47
Date Received: 10/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/20/25 10:26
Analyst: MHG
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 10/19/25 07:21
Cleanup Method: EPA 3665A
Cleanup Date: 10/19/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/19/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0566	0.00503	1	A
Aroclor 1221	ND		mg/kg	0.0566	0.00567	1	A
Aroclor 1232	ND		mg/kg	0.0566	0.0120	1	A
Aroclor 1242	ND		mg/kg	0.0566	0.00763	1	A
Aroclor 1248	ND		mg/kg	0.0566	0.00849	1	A
Aroclor 1254	ND		mg/kg	0.0566	0.00619	1	A
Aroclor 1260	ND		mg/kg	0.0566	0.0104	1	A
Aroclor 1262	ND		mg/kg	0.0566	0.00719	1	A
Aroclor 1268	ND		mg/kg	0.0566	0.00586	1	A
PCBs, Total	ND		mg/kg	0.0566	0.00503	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	41		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	42		30-150	B
Decachlorobiphenyl	71		30-150	B

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-05
Client ID: FROG-SS-105 (1-3)
Sample Location: CARLISLE, PA

Date Collected: 10/15/25 11:52
Date Received: 10/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/20/25 10:49
Analyst: MHG
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 10/19/25 07:21
Cleanup Method: EPA 3665A
Cleanup Date: 10/19/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/19/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0527	0.00468	1	A
Aroclor 1221	ND		mg/kg	0.0527	0.00528	1	A
Aroclor 1232	ND		mg/kg	0.0527	0.0112	1	A
Aroclor 1242	ND		mg/kg	0.0527	0.00710	1	A
Aroclor 1248	ND		mg/kg	0.0527	0.00790	1	A
Aroclor 1254	0.0454	JIP	mg/kg	0.0527	0.00576	1	B
Aroclor 1260	0.0214	JIP	mg/kg	0.0527	0.00974	1	B
Aroclor 1262	ND		mg/kg	0.0527	0.00669	1	A
Aroclor 1268	ND	IP	mg/kg	0.0527	0.00546	1	B
PCBs, Total	0.0668	J	mg/kg	0.0527	0.00468	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	98		30-150	A
2,4,5,6-Tetrachloro-m-xylene	39		30-150	B
Decachlorobiphenyl	66		30-150	B

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-06
Client ID: FROG-SS-105 (13-15)
Sample Location: CARLISLE, PA

Date Collected: 10/15/25 11:54
Date Received: 10/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/20/25 10:57
Analyst: MHG
Percent Solids: 74%

Extraction Method: EPA 3546
Extraction Date: 10/19/25 07:21
Cleanup Method: EPA 3665A
Cleanup Date: 10/19/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/19/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0632	0.00562	1	A
Aroclor 1221	ND		mg/kg	0.0632	0.00634	1	A
Aroclor 1232	ND		mg/kg	0.0632	0.0134	1	A
Aroclor 1242	ND		mg/kg	0.0632	0.00852	1	A
Aroclor 1248	ND		mg/kg	0.0632	0.00948	1	A
Aroclor 1254	ND		mg/kg	0.0632	0.00692	1	A
Aroclor 1260	ND		mg/kg	0.0632	0.0117	1	A
Aroclor 1262	ND		mg/kg	0.0632	0.00803	1	A
Aroclor 1268	ND		mg/kg	0.0632	0.00655	1	A
PCBs, Total	ND		mg/kg	0.0632	0.00562	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	44		30-150	A
Decachlorobiphenyl	69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	44		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-14
Client ID: FROG-SS-FB-101
Sample Location: CARLISLE, PA
Date Collected: 10/15/25 15:30
Date Received: 10/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 10/19/25 12:57
Analyst: MHG

Extraction Method: EPA 3510C
Extraction Date: 10/18/25 12:34
Cleanup Method: EPA 3665A
Cleanup Date: 10/18/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/18/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.250	0.021	1	A
Aroclor 1221	ND		ug/l	0.250	0.026	1	A
Aroclor 1232	ND		ug/l	0.250	0.026	1	A
Aroclor 1242	ND		ug/l	0.250	0.026	1	A
Aroclor 1248	ND		ug/l	0.250	0.026	1	A
Aroclor 1254	ND		ug/l	0.250	0.026	1	A
Aroclor 1260	ND		ug/l	0.250	0.026	1	A
Aroclor 1262	ND		ug/l	0.250	0.026	1	A
Aroclor 1268	ND		ug/l	0.250	0.026	1	A
PCBs, Total	ND		ug/l	0.250	0.021	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	39		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	46		30-150	B

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-15
Client ID: FROG-SS-118 (0-2)
Sample Location: CARLISLE, PA

Date Collected: 10/16/25 14:20
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/20/25 11:05
Analyst: MHG
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 10/19/25 07:16
Cleanup Method: EPA 3665A
Cleanup Date: 10/19/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/19/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0570	0.00506	1	A
Aroclor 1221	ND		mg/kg	0.0570	0.00571	1	A
Aroclor 1232	ND		mg/kg	0.0570	0.0121	1	A
Aroclor 1242	ND		mg/kg	0.0570	0.00768	1	A
Aroclor 1248	ND		mg/kg	0.0570	0.00854	1	A
Aroclor 1254	ND		mg/kg	0.0570	0.00623	1	A
Aroclor 1260	ND		mg/kg	0.0570	0.0105	1	A
Aroclor 1262	ND		mg/kg	0.0570	0.00723	1	A
Aroclor 1268	ND		mg/kg	0.0570	0.00590	1	A
PCBs, Total	ND		mg/kg	0.0570	0.00506	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	43		30-150	A
Decachlorobiphenyl	63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	42		30-150	B
Decachlorobiphenyl	65		30-150	B

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-16
Client ID: FROG-SS-118 (10-12)
Sample Location: CARLISLE, PA

Date Collected: 10/16/25 14:23
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/20/25 11:13
Analyst: MHG
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 10/19/25 07:16
Cleanup Method: EPA 3665A
Cleanup Date: 10/19/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/19/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0574	0.00510	1	A
Aroclor 1221	ND		mg/kg	0.0574	0.00575	1	A
Aroclor 1232	ND		mg/kg	0.0574	0.0122	1	A
Aroclor 1242	ND		mg/kg	0.0574	0.00774	1	A
Aroclor 1248	ND		mg/kg	0.0574	0.00861	1	A
Aroclor 1254	ND		mg/kg	0.0574	0.00628	1	A
Aroclor 1260	ND		mg/kg	0.0574	0.0106	1	A
Aroclor 1262	ND		mg/kg	0.0574	0.00729	1	A
Aroclor 1268	ND		mg/kg	0.0574	0.00595	1	A
PCBs, Total	ND		mg/kg	0.0574	0.00510	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	49		30-150	A
Decachlorobiphenyl	78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	50		30-150	B
Decachlorobiphenyl	79		30-150	B

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-17
Client ID: FROG-SS-119 (0.5-1)
Sample Location: CARLISLE, PA

Date Collected: 10/16/25 13:45
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/20/25 11:20
Analyst: MHG
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 10/19/25 07:16
Cleanup Method: EPA 3665A
Cleanup Date: 10/19/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/19/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0519	0.00461	1	A
Aroclor 1221	ND		mg/kg	0.0519	0.00520	1	A
Aroclor 1232	ND		mg/kg	0.0519	0.0110	1	A
Aroclor 1242	0.0177	J	mg/kg	0.0519	0.00700	1	A
Aroclor 1248	ND		mg/kg	0.0519	0.00779	1	A
Aroclor 1254	0.0331	J	mg/kg	0.0519	0.00568	1	B
Aroclor 1260	0.0198	J	mg/kg	0.0519	0.00960	1	A
Aroclor 1262	ND		mg/kg	0.0519	0.00659	1	A
Aroclor 1268	ND		mg/kg	0.0519	0.00538	1	A
PCBs, Total	0.0706	J	mg/kg	0.0519	0.00461	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	38		30-150	A
Decachlorobiphenyl	60		30-150	A
2,4,5,6-Tetrachloro-m-xylene	38		30-150	B
Decachlorobiphenyl	63		30-150	B

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-18
Client ID: FROG-SS-111 (0-2)
Sample Location: CARLISLE, PA

Date Collected: 10/16/25 10:28
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/20/25 11:28
Analyst: MHG
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 10/19/25 07:16
Cleanup Method: EPA 3665A
Cleanup Date: 10/19/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/19/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0537	0.00477	1	A
Aroclor 1221	ND		mg/kg	0.0537	0.00538	1	A
Aroclor 1232	ND		mg/kg	0.0537	0.0114	1	A
Aroclor 1242	ND		mg/kg	0.0537	0.00724	1	A
Aroclor 1248	ND		mg/kg	0.0537	0.00805	1	A
Aroclor 1254	ND		mg/kg	0.0537	0.00587	1	A
Aroclor 1260	ND		mg/kg	0.0537	0.00992	1	A
Aroclor 1262	ND		mg/kg	0.0537	0.00682	1	A
Aroclor 1268	ND		mg/kg	0.0537	0.00556	1	A
PCBs, Total	ND		mg/kg	0.0537	0.00477	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	47		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	46		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-19
Client ID: FROG-SS-111 (11-13)
Sample Location: CARLISLE, PA

Date Collected: 10/16/25 10:30
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/20/25 11:36
Analyst: MHG
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 10/19/25 07:16
Cleanup Method: EPA 3665A
Cleanup Date: 10/19/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/19/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0576	0.00511	1	A
Aroclor 1221	ND		mg/kg	0.0576	0.00577	1	A
Aroclor 1232	ND		mg/kg	0.0576	0.0122	1	A
Aroclor 1242	ND		mg/kg	0.0576	0.00776	1	A
Aroclor 1248	ND		mg/kg	0.0576	0.00864	1	A
Aroclor 1254	ND		mg/kg	0.0576	0.00630	1	A
Aroclor 1260	ND		mg/kg	0.0576	0.0106	1	A
Aroclor 1262	ND		mg/kg	0.0576	0.00731	1	A
Aroclor 1268	ND		mg/kg	0.0576	0.00596	1	A
PCBs, Total	ND		mg/kg	0.0576	0.00511	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	38		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	38		30-150	B
Decachlorobiphenyl	74		30-150	B

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-20
Client ID: FROG-SS-112 (0-2)
Sample Location: CARLISLE, PA

Date Collected: 10/16/25 11:20
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/20/25 11:44
Analyst: MHG
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 10/19/25 07:16
Cleanup Method: EPA 3665A
Cleanup Date: 10/19/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/19/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0509	0.00452	1	A
Aroclor 1221	ND		mg/kg	0.0509	0.00510	1	A
Aroclor 1232	ND		mg/kg	0.0509	0.0108	1	A
Aroclor 1242	ND		mg/kg	0.0509	0.00686	1	A
Aroclor 1248	ND		mg/kg	0.0509	0.00764	1	A
Aroclor 1254	ND		mg/kg	0.0509	0.00557	1	A
Aroclor 1260	ND		mg/kg	0.0509	0.00941	1	A
Aroclor 1262	ND		mg/kg	0.0509	0.00647	1	A
Aroclor 1268	ND		mg/kg	0.0509	0.00528	1	A
PCBs, Total	ND		mg/kg	0.0509	0.00452	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	39		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	38		30-150	B
Decachlorobiphenyl	66		30-150	B

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-21
Client ID: FROG-SS-112 (7-9)
Sample Location: CARLISLE, PA

Date Collected: 10/16/25 11:22
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/20/25 11:51
Analyst: MHG
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 10/19/25 07:16
Cleanup Method: EPA 3665A
Cleanup Date: 10/19/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/19/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0499	0.00443	1	A
Aroclor 1221	ND		mg/kg	0.0499	0.00500	1	A
Aroclor 1232	ND		mg/kg	0.0499	0.0106	1	A
Aroclor 1242	ND		mg/kg	0.0499	0.00672	1	A
Aroclor 1248	ND		mg/kg	0.0499	0.00748	1	A
Aroclor 1254	ND		mg/kg	0.0499	0.00546	1	A
Aroclor 1260	ND		mg/kg	0.0499	0.00922	1	A
Aroclor 1262	ND		mg/kg	0.0499	0.00633	1	A
Aroclor 1268	ND		mg/kg	0.0499	0.00517	1	A
PCBs, Total	ND		mg/kg	0.0499	0.00443	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	49		30-150	A
Decachlorobiphenyl	81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	49		30-150	B
Decachlorobiphenyl	80		30-150	B

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-22
Client ID: FROG-SS-120 (0-2)
Sample Location: CARLISLE, PA

Date Collected: 10/16/25 08:00
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/20/25 11:59
Analyst: MHG
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 10/19/25 07:16
Cleanup Method: EPA 3665A
Cleanup Date: 10/19/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/19/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0510	0.00453	1	A
Aroclor 1221	ND		mg/kg	0.0510	0.00511	1	A
Aroclor 1232	ND		mg/kg	0.0510	0.0108	1	A
Aroclor 1242	ND		mg/kg	0.0510	0.00688	1	A
Aroclor 1248	ND		mg/kg	0.0510	0.00766	1	A
Aroclor 1254	ND		mg/kg	0.0510	0.00558	1	A
Aroclor 1260	0.102		mg/kg	0.0510	0.00943	1	B
Aroclor 1262	ND		mg/kg	0.0510	0.00648	1	A
Aroclor 1268	0.0992		mg/kg	0.0510	0.00529	1	B
PCBs, Total	0.201		mg/kg	0.0510	0.00453	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	41		30-150	A
Decachlorobiphenyl	85		30-150	A
2,4,5,6-Tetrachloro-m-xylene	41		30-150	B
Decachlorobiphenyl	95		30-150	B

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-23
Client ID: FROG-SS-120 (2-3.5)
Sample Location: CARLISLE, PA

Date Collected: 10/16/25 08:05
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/20/25 12:07
Analyst: MHG
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 10/19/25 07:16
Cleanup Method: EPA 3665A
Cleanup Date: 10/19/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/19/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0516	0.00458	1	A
Aroclor 1221	ND		mg/kg	0.0516	0.00517	1	A
Aroclor 1232	ND		mg/kg	0.0516	0.0109	1	A
Aroclor 1242	ND		mg/kg	0.0516	0.00695	1	A
Aroclor 1248	ND		mg/kg	0.0516	0.00774	1	A
Aroclor 1254	0.117		mg/kg	0.0516	0.00564	1	A
Aroclor 1260	0.133		mg/kg	0.0516	0.00953	1	B
Aroclor 1262	ND		mg/kg	0.0516	0.00655	1	A
Aroclor 1268	0.0858		mg/kg	0.0516	0.00534	1	B
PCBs, Total	0.336		mg/kg	0.0516	0.00458	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	44		30-150	A
Decachlorobiphenyl	70		30-150	A
2,4,5,6-Tetrachloro-m-xylene	44		30-150	B
Decachlorobiphenyl	81		30-150	B

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-24
Client ID: FROG-SS-121 (0-2)
Sample Location: CARLISLE, PA

Date Collected: 10/16/25 09:06
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/20/25 12:15
Analyst: MHG
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 10/19/25 07:16
Cleanup Method: EPA 3665A
Cleanup Date: 10/19/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/19/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0515	0.00457	1	A
Aroclor 1221	ND		mg/kg	0.0515	0.00516	1	A
Aroclor 1232	ND		mg/kg	0.0515	0.0109	1	A
Aroclor 1242	ND		mg/kg	0.0515	0.00694	1	A
Aroclor 1248	ND		mg/kg	0.0515	0.00773	1	A
Aroclor 1254	ND		mg/kg	0.0515	0.00564	1	A
Aroclor 1260	ND		mg/kg	0.0515	0.00952	1	A
Aroclor 1262	ND		mg/kg	0.0515	0.00654	1	A
Aroclor 1268	ND		mg/kg	0.0515	0.00534	1	A
PCBs, Total	ND		mg/kg	0.0515	0.00457	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	37		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	38		30-150	B
Decachlorobiphenyl	75		30-150	B

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-25
Client ID: FROG-SS-121 (22-24)
Sample Location: CARLISLE, PA

Date Collected: 10/16/25 09:16
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/20/25 12:22
Analyst: MHG
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 10/19/25 07:16
Cleanup Method: EPA 3665A
Cleanup Date: 10/19/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/19/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0586	0.00521	1	A
Aroclor 1221	ND		mg/kg	0.0586	0.00588	1	A
Aroclor 1232	ND		mg/kg	0.0586	0.0124	1	A
Aroclor 1242	ND		mg/kg	0.0586	0.00791	1	A
Aroclor 1248	ND		mg/kg	0.0586	0.00880	1	A
Aroclor 1254	ND		mg/kg	0.0586	0.00642	1	A
Aroclor 1260	ND		mg/kg	0.0586	0.0108	1	A
Aroclor 1262	ND		mg/kg	0.0586	0.00745	1	A
Aroclor 1268	ND		mg/kg	0.0586	0.00608	1	A
PCBs, Total	ND		mg/kg	0.0586	0.00521	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	33		30-150	A
Decachlorobiphenyl	52		30-150	A
2,4,5,6-Tetrachloro-m-xylene	34		30-150	B
Decachlorobiphenyl	51		30-150	B

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-26
Client ID: FROG-SS-DUP-102
Sample Location: CARLISLE, PA

Date Collected: 10/16/25 00:00
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/20/25 12:45
Analyst: MHG
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 10/19/25 07:16
Cleanup Method: EPA 3665A
Cleanup Date: 10/19/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/19/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0604	0.00536	1	A
Aroclor 1221	ND		mg/kg	0.0604	0.00605	1	A
Aroclor 1232	ND		mg/kg	0.0604	0.0128	1	A
Aroclor 1242	ND		mg/kg	0.0604	0.00814	1	A
Aroclor 1248	ND		mg/kg	0.0604	0.00906	1	A
Aroclor 1254	ND		mg/kg	0.0604	0.00660	1	A
Aroclor 1260	ND		mg/kg	0.0604	0.0112	1	A
Aroclor 1262	ND		mg/kg	0.0604	0.00767	1	A
Aroclor 1268	ND		mg/kg	0.0604	0.00626	1	A
PCBs, Total	ND		mg/kg	0.0604	0.00536	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	50		30-150	A
Decachlorobiphenyl	84		30-150	A
2,4,5,6-Tetrachloro-m-xylene	51		30-150	B
Decachlorobiphenyl	84		30-150	B

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-27
Client ID: FROG-SS-FB-102
Sample Location: CARLISLE, PA

Date Collected: 10/16/25 13:10
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 10/19/25 15:31
Analyst: MHG

Extraction Method: EPA 3510C
Extraction Date: 10/18/25 12:34
Cleanup Method: EPA 3665A
Cleanup Date: 10/18/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/18/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.250	0.021	1	A
Aroclor 1221	ND		ug/l	0.250	0.026	1	A
Aroclor 1232	ND		ug/l	0.250	0.026	1	A
Aroclor 1242	ND		ug/l	0.250	0.026	1	A
Aroclor 1248	ND		ug/l	0.250	0.026	1	A
Aroclor 1254	ND		ug/l	0.250	0.026	1	A
Aroclor 1260	ND		ug/l	0.250	0.026	1	A
Aroclor 1262	ND		ug/l	0.250	0.026	1	A
Aroclor 1268	ND		ug/l	0.250	0.026	1	A
PCBs, Total	ND		ug/l	0.250	0.021	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	56		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	57		30-150	B

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-28
Client ID: FROG-SS-101 (0-2)
Sample Location: CARLISLE, PA

Date Collected: 10/17/25 12:40
Date Received: 10/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/20/25 12:09
Analyst: AKM
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 10/19/25 17:31
Cleanup Method: EPA 3665A
Cleanup Date: 10/20/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/20/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0574	0.00510	1	A
Aroclor 1221	ND		mg/kg	0.0574	0.00576	1	A
Aroclor 1232	ND		mg/kg	0.0574	0.0122	1	A
Aroclor 1242	ND		mg/kg	0.0574	0.00774	1	A
Aroclor 1248	ND		mg/kg	0.0574	0.00862	1	A
Aroclor 1254	ND		mg/kg	0.0574	0.00628	1	A
Aroclor 1260	0.0354	J	mg/kg	0.0574	0.0106	1	B
Aroclor 1262	ND		mg/kg	0.0574	0.00730	1	A
Aroclor 1268	0.0179	J	mg/kg	0.0574	0.00595	1	B
PCBs, Total	0.0533	J	mg/kg	0.0574	0.00510	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	53		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	64		30-150	B

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-29
Client ID: FROG-SS-101 (3-5)
Sample Location: CARLISLE, PA

Date Collected: 10/17/25 12:41
Date Received: 10/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/20/25 12:21
Analyst: AKM
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 10/19/25 17:31
Cleanup Method: EPA 3665A
Cleanup Date: 10/20/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/20/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0587	0.00521	1	A
Aroclor 1221	ND		mg/kg	0.0587	0.00588	1	A
Aroclor 1232	ND		mg/kg	0.0587	0.0124	1	A
Aroclor 1242	ND		mg/kg	0.0587	0.00792	1	A
Aroclor 1248	ND		mg/kg	0.0587	0.00881	1	A
Aroclor 1254	ND		mg/kg	0.0587	0.00642	1	A
Aroclor 1260	ND		mg/kg	0.0587	0.0108	1	A
Aroclor 1262	ND		mg/kg	0.0587	0.00746	1	A
Aroclor 1268	ND		mg/kg	0.0587	0.00608	1	A
PCBs, Total	ND		mg/kg	0.0587	0.00521	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	39		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	46		30-150	B

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-30
Client ID: FROG-SS-102 (0-2)
Sample Location: CARLISLE, PA

Date Collected: 10/17/25 13:45
Date Received: 10/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/20/25 12:32
Analyst: AKM
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 10/19/25 17:31
Cleanup Method: EPA 3665A
Cleanup Date: 10/20/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/20/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0529	0.00470	1	A
Aroclor 1221	ND		mg/kg	0.0529	0.00530	1	A
Aroclor 1232	ND		mg/kg	0.0529	0.0112	1	A
Aroclor 1242	ND		mg/kg	0.0529	0.00713	1	A
Aroclor 1248	ND		mg/kg	0.0529	0.00793	1	A
Aroclor 1254	ND		mg/kg	0.0529	0.00578	1	A
Aroclor 1260	0.0558		mg/kg	0.0529	0.00977	1	B
Aroclor 1262	ND		mg/kg	0.0529	0.00672	1	A
Aroclor 1268	ND		mg/kg	0.0529	0.00548	1	A
PCBs, Total	0.0558		mg/kg	0.0529	0.00470	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	70		30-150	B

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-31
Client ID: FROG-SS-102 (19-21)
Sample Location: CARLISLE, PA

Date Collected: 10/17/25 13:51
Date Received: 10/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/20/25 12:44
Analyst: AKM
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 10/19/25 17:31
Cleanup Method: EPA 3665A
Cleanup Date: 10/20/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/20/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0586	0.00521	1	A
Aroclor 1221	ND		mg/kg	0.0586	0.00588	1	A
Aroclor 1232	ND		mg/kg	0.0586	0.0124	1	A
Aroclor 1242	ND		mg/kg	0.0586	0.00790	1	A
Aroclor 1248	ND		mg/kg	0.0586	0.00880	1	A
Aroclor 1254	ND		mg/kg	0.0586	0.00641	1	A
Aroclor 1260	ND		mg/kg	0.0586	0.0108	1	A
Aroclor 1262	ND		mg/kg	0.0586	0.00745	1	A
Aroclor 1268	ND		mg/kg	0.0586	0.00607	1	A
PCBs, Total	ND		mg/kg	0.0586	0.00521	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	49		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	55		30-150	B

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-32
Client ID: FROG-SS-115 (0-2)
Sample Location: CARLISLE, PA

Date Collected: 10/17/25 10:43
Date Received: 10/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/20/25 12:55
Analyst: AKM
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 10/19/25 17:31
Cleanup Method: EPA 3665A
Cleanup Date: 10/20/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/20/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0529	0.00470	1	A
Aroclor 1221	ND		mg/kg	0.0529	0.00530	1	A
Aroclor 1232	ND		mg/kg	0.0529	0.0112	1	A
Aroclor 1242	ND		mg/kg	0.0529	0.00713	1	A
Aroclor 1248	ND		mg/kg	0.0529	0.00793	1	A
Aroclor 1254	ND		mg/kg	0.0529	0.00578	1	A
Aroclor 1260	0.0126	J	mg/kg	0.0529	0.00977	1	B
Aroclor 1262	ND		mg/kg	0.0529	0.00672	1	A
Aroclor 1268	0.00717	J	mg/kg	0.0529	0.00548	1	B
PCBs, Total	0.0198	J	mg/kg	0.0529	0.00470	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	60		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	66		30-150	B

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-33
Client ID: FROG-SS-115 (7.5-9.5)
Sample Location: CARLISLE, PA

Date Collected: 10/17/25 10:45
Date Received: 10/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/20/25 13:07
Analyst: AKM
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 10/19/25 17:31
Cleanup Method: EPA 3665A
Cleanup Date: 10/20/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/20/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0585	0.00520	1	A
Aroclor 1221	ND		mg/kg	0.0585	0.00586	1	A
Aroclor 1232	ND		mg/kg	0.0585	0.0124	1	A
Aroclor 1242	ND		mg/kg	0.0585	0.00789	1	A
Aroclor 1248	ND		mg/kg	0.0585	0.00878	1	A
Aroclor 1254	ND		mg/kg	0.0585	0.00640	1	A
Aroclor 1260	ND		mg/kg	0.0585	0.0108	1	A
Aroclor 1262	ND		mg/kg	0.0585	0.00743	1	A
Aroclor 1268	ND		mg/kg	0.0585	0.00606	1	A
PCBs, Total	ND		mg/kg	0.0585	0.00520	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	65		30-150	B

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-34
Client ID: FROG-SS-116 (0-2)
Sample Location: CARLISLE, PA

Date Collected: 10/17/25 09:42
Date Received: 10/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/20/25 13:18
Analyst: AKM
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 10/19/25 17:31
Cleanup Method: EPA 3665A
Cleanup Date: 10/20/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/20/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0516	0.00459	1	A
Aroclor 1221	ND		mg/kg	0.0516	0.00518	1	A
Aroclor 1232	ND		mg/kg	0.0516	0.0110	1	A
Aroclor 1242	ND		mg/kg	0.0516	0.00696	1	A
Aroclor 1248	ND		mg/kg	0.0516	0.00775	1	A
Aroclor 1254	ND		mg/kg	0.0516	0.00565	1	A
Aroclor 1260	0.112		mg/kg	0.0516	0.00954	1	A
Aroclor 1262	ND		mg/kg	0.0516	0.00656	1	A
Aroclor 1268	0.196		mg/kg	0.0516	0.00535	1	A
PCBs, Total	0.308		mg/kg	0.0516	0.00459	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	95		30-150	A
Decachlorobiphenyl	83		30-150	A
2,4,5,6-Tetrachloro-m-xylene	87		30-150	B
Decachlorobiphenyl	91		30-150	B

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-35
Client ID: FROG-SS-116 (18.5-20.5)
Sample Location: CARLISLE, PA

Date Collected: 10/17/25 09:44
Date Received: 10/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/20/25 13:30
Analyst: AKM
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 10/19/25 17:31
Cleanup Method: EPA 3665A
Cleanup Date: 10/20/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/20/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0565	0.00502	1	A
Aroclor 1221	ND		mg/kg	0.0565	0.00566	1	A
Aroclor 1232	ND		mg/kg	0.0565	0.0120	1	A
Aroclor 1242	ND		mg/kg	0.0565	0.00761	1	A
Aroclor 1248	ND		mg/kg	0.0565	0.00847	1	A
Aroclor 1254	ND		mg/kg	0.0565	0.00618	1	A
Aroclor 1260	ND		mg/kg	0.0565	0.0104	1	A
Aroclor 1262	ND		mg/kg	0.0565	0.00717	1	A
Aroclor 1268	ND		mg/kg	0.0565	0.00585	1	A
PCBs, Total	ND		mg/kg	0.0565	0.00502	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	51		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	57		30-150	B

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-36
Client ID: FROG-SS-117 (0-2)
Sample Location: CARLISLE, PA

Date Collected: 10/17/25 08:14
Date Received: 10/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/20/25 14:05
Analyst: AKM
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 10/19/25 17:31
Cleanup Method: EPA 3665A
Cleanup Date: 10/20/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/20/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0513	0.00455	1	A
Aroclor 1221	ND		mg/kg	0.0513	0.00514	1	A
Aroclor 1232	ND		mg/kg	0.0513	0.0109	1	A
Aroclor 1242	ND		mg/kg	0.0513	0.00691	1	A
Aroclor 1248	ND		mg/kg	0.0513	0.00769	1	A
Aroclor 1254	ND		mg/kg	0.0513	0.00561	1	A
Aroclor 1260	ND		mg/kg	0.0513	0.00947	1	A
Aroclor 1262	ND		mg/kg	0.0513	0.00651	1	A
Aroclor 1268	ND		mg/kg	0.0513	0.00531	1	A
PCBs, Total	ND		mg/kg	0.0513	0.00455	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-37
Client ID: FROG-SS-117 (11-13)
Sample Location: CARLISLE, PA

Date Collected: 10/17/25 08:22
Date Received: 10/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/20/25 14:16
Analyst: AKM
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 10/19/25 17:31
Cleanup Method: EPA 3665A
Cleanup Date: 10/20/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/20/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0558	0.00496	1	A
Aroclor 1221	ND		mg/kg	0.0558	0.00559	1	A
Aroclor 1232	ND		mg/kg	0.0558	0.0118	1	A
Aroclor 1242	ND		mg/kg	0.0558	0.00752	1	A
Aroclor 1248	ND		mg/kg	0.0558	0.00837	1	A
Aroclor 1254	ND		mg/kg	0.0558	0.00610	1	A
Aroclor 1260	0.0870		mg/kg	0.0558	0.0103	1	A
Aroclor 1262	ND		mg/kg	0.0558	0.00709	1	A
Aroclor 1268	0.0845		mg/kg	0.0558	0.00578	1	A
PCBs, Total	0.172		mg/kg	0.0558	0.00496	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	70		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	74		30-150	B

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-38
Client ID: FROG-SS-DUP-103
Sample Location: CARLISLE, PA
Date Collected: 10/17/25 00:00
Date Received: 10/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/20/25 14:28
Analyst: AKM
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 10/19/25 17:34
Cleanup Method: EPA 3665A
Cleanup Date: 10/20/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/20/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0495	0.00440	1	A
Aroclor 1221	ND		mg/kg	0.0495	0.00496	1	A
Aroclor 1232	ND		mg/kg	0.0495	0.0105	1	A
Aroclor 1242	ND		mg/kg	0.0495	0.00668	1	A
Aroclor 1248	ND		mg/kg	0.0495	0.00743	1	A
Aroclor 1254	ND		mg/kg	0.0495	0.00542	1	A
Aroclor 1260	0.0178	J	mg/kg	0.0495	0.00915	1	A
Aroclor 1262	ND		mg/kg	0.0495	0.00629	1	A
Aroclor 1268	0.0138	J	mg/kg	0.0495	0.00513	1	A
PCBs, Total	0.0316	J	mg/kg	0.0495	0.00440	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-39
Client ID: FROG-SS-FB-103
Sample Location: CARLISLE, PA
Date Collected: 10/17/25 12:10
Date Received: 10/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 10/20/25 14:49
Analyst: MHG

Extraction Method: EPA 3510C
Extraction Date: 10/20/25 06:04
Cleanup Method: EPA 3665A
Cleanup Date: 10/20/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/20/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.250	0.021	1	A
Aroclor 1221	ND		ug/l	0.250	0.026	1	A
Aroclor 1232	ND		ug/l	0.250	0.026	1	A
Aroclor 1242	ND		ug/l	0.250	0.026	1	A
Aroclor 1248	ND		ug/l	0.250	0.026	1	A
Aroclor 1254	ND		ug/l	0.250	0.026	1	A
Aroclor 1260	ND		ug/l	0.250	0.026	1	A
Aroclor 1262	ND		ug/l	0.250	0.026	1	A
Aroclor 1268	ND		ug/l	0.250	0.026	1	A
PCBs, Total	ND		ug/l	0.250	0.021	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	86		30-150	B

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-40
Client ID: FROG-SS-114 (0-2)
Sample Location: CARLISLE, PA

Date Collected: 10/20/25 08:41
Date Received: 10/20/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/28/25 09:21
Analyst: AKM
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 10/27/25 15:12
Cleanup Method: EPA 3665A
Cleanup Date: 10/28/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/28/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0578	0.00513	1	A
Aroclor 1221	ND		mg/kg	0.0578	0.00579	1	A
Aroclor 1232	ND		mg/kg	0.0578	0.0122	1	A
Aroclor 1242	ND		mg/kg	0.0578	0.00779	1	A
Aroclor 1248	ND		mg/kg	0.0578	0.00866	1	A
Aroclor 1254	ND		mg/kg	0.0578	0.00632	1	A
Aroclor 1260	ND		mg/kg	0.0578	0.0107	1	A
Aroclor 1262	ND		mg/kg	0.0578	0.00734	1	A
Aroclor 1268	ND		mg/kg	0.0578	0.00598	1	A
PCBs, Total	ND		mg/kg	0.0578	0.00513	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-41
Client ID: FROG-SS-114 (17-19)
Sample Location: CARLISLE, PA

Date Collected: 10/20/25 08:44
Date Received: 10/20/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/28/25 09:29
Analyst: AKM
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 10/27/25 15:12
Cleanup Method: EPA 3665A
Cleanup Date: 10/28/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/28/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0628	0.00557	1	A
Aroclor 1221	ND		mg/kg	0.0628	0.00629	1	A
Aroclor 1232	ND		mg/kg	0.0628	0.0133	1	A
Aroclor 1242	ND		mg/kg	0.0628	0.00846	1	A
Aroclor 1248	ND		mg/kg	0.0628	0.00941	1	A
Aroclor 1254	ND		mg/kg	0.0628	0.00686	1	B
Aroclor 1260	ND		mg/kg	0.0628	0.0116	1	A
Aroclor 1262	ND		mg/kg	0.0628	0.00797	1	A
Aroclor 1268	ND		mg/kg	0.0628	0.00650	1	A
PCBs, Total	ND		mg/kg	0.0628	0.00557	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	69		30-150	B

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-42
Client ID: FROG-SS-113 (0-2)
Sample Location: CARLISLE, PA

Date Collected: 10/20/25 07:50
Date Received: 10/20/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/28/25 09:37
Analyst: AKM
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 10/27/25 15:12
Cleanup Method: EPA 3665A
Cleanup Date: 10/28/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/28/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0577	0.00513	1	A
Aroclor 1221	ND		mg/kg	0.0577	0.00578	1	A
Aroclor 1232	ND		mg/kg	0.0577	0.0122	1	A
Aroclor 1242	ND		mg/kg	0.0577	0.00778	1	A
Aroclor 1248	ND		mg/kg	0.0577	0.00866	1	A
Aroclor 1254	ND		mg/kg	0.0577	0.00632	1	A
Aroclor 1260	ND		mg/kg	0.0577	0.0107	1	A
Aroclor 1262	ND		mg/kg	0.0577	0.00733	1	A
Aroclor 1268	ND		mg/kg	0.0577	0.00598	1	A
PCBs, Total	ND		mg/kg	0.0577	0.00513	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	70		30-150	B

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-43
Client ID: FROG-SS-113 (6-8)
Sample Location: CARLISLE, PA

Date Collected: 10/20/25 07:52
Date Received: 10/20/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/28/25 09:45
Analyst: AKM
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 10/27/25 15:12
Cleanup Method: EPA 3665A
Cleanup Date: 10/28/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/28/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0600	0.00533	1	A
Aroclor 1221	ND		mg/kg	0.0600	0.00602	1	A
Aroclor 1232	ND		mg/kg	0.0600	0.0127	1	A
Aroclor 1242	ND		mg/kg	0.0600	0.00810	1	A
Aroclor 1248	ND		mg/kg	0.0600	0.00901	1	A
Aroclor 1254	ND		mg/kg	0.0600	0.00657	1	A
Aroclor 1260	ND		mg/kg	0.0600	0.0111	1	A
Aroclor 1262	ND		mg/kg	0.0600	0.00763	1	A
Aroclor 1268	ND		mg/kg	0.0600	0.00622	1	A
PCBs, Total	ND		mg/kg	0.0600	0.00533	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	87		30-150	B
Decachlorobiphenyl	73		30-150	B

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-44
Client ID: FROG-SS-119 (0-0.5)
Sample Location: CARLISLE, PA

Date Collected: 10/20/25 14:00
Date Received: 10/20/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/28/25 09:52
Analyst: AKM
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 10/27/25 15:12
Cleanup Method: EPA 3665A
Cleanup Date: 10/28/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/28/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0522	0.00463	1	A
Aroclor 1221	ND		mg/kg	0.0522	0.00523	1	A
Aroclor 1232	ND		mg/kg	0.0522	0.0111	1	A
Aroclor 1242	0.00929	JIP	mg/kg	0.0522	0.00703	1	A
Aroclor 1248	ND		mg/kg	0.0522	0.00782	1	A
Aroclor 1254	0.0280	J	mg/kg	0.0522	0.00571	1	B
Aroclor 1260	0.0257	J	mg/kg	0.0522	0.00964	1	B
Aroclor 1262	ND		mg/kg	0.0522	0.00662	1	A
Aroclor 1268	ND		mg/kg	0.0522	0.00540	1	A
PCBs, Total	0.0630	J	mg/kg	0.0522	0.00463	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	68		30-150	B

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-45
Client ID: FROG-SS-122 (1.5-3.5)
Sample Location: CARLISLE, PA

Date Collected: 10/20/25 10:45
Date Received: 10/20/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/28/25 10:00
Analyst: AKM
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 10/27/25 15:12
Cleanup Method: EPA 3665A
Cleanup Date: 10/28/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/28/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0563	0.00500	1	A
Aroclor 1221	ND		mg/kg	0.0563	0.00564	1	A
Aroclor 1232	ND		mg/kg	0.0563	0.0119	1	A
Aroclor 1242	ND		mg/kg	0.0563	0.00759	1	A
Aroclor 1248	ND		mg/kg	0.0563	0.00845	1	A
Aroclor 1254	ND		mg/kg	0.0563	0.00616	1	A
Aroclor 1260	ND		mg/kg	0.0563	0.0104	1	A
Aroclor 1262	ND		mg/kg	0.0563	0.00715	1	A
Aroclor 1268	ND		mg/kg	0.0563	0.00583	1	A
PCBs, Total	ND		mg/kg	0.0563	0.00500	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	69		30-150	B

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-46
Client ID: FROG-SS-122 (30-32)
Sample Location: CARLISLE, PA

Date Collected: 10/20/25 11:00
Date Received: 10/20/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/28/25 10:08
Analyst: AKM
Percent Solids: 67%

Extraction Method: EPA 3546
Extraction Date: 10/27/25 15:12
Cleanup Method: EPA 3665A
Cleanup Date: 10/28/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/28/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0694	0.00616	1	A
Aroclor 1221	ND		mg/kg	0.0694	0.00695	1	A
Aroclor 1232	ND		mg/kg	0.0694	0.0147	1	A
Aroclor 1242	ND		mg/kg	0.0694	0.00935	1	A
Aroclor 1248	ND		mg/kg	0.0694	0.0104	1	A
Aroclor 1254	ND		mg/kg	0.0694	0.00759	1	A
Aroclor 1260	ND		mg/kg	0.0694	0.0128	1	A
Aroclor 1262	ND		mg/kg	0.0694	0.00881	1	A
Aroclor 1268	ND		mg/kg	0.0694	0.00719	1	A
PCBs, Total	ND		mg/kg	0.0694	0.00616	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	74		30-150	B

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-47
Client ID: FROG-SS-123 (1-3)
Sample Location: CARLISLE, PA

Date Collected: 10/20/25 12:35
Date Received: 10/20/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/28/25 10:31
Analyst: AKM
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 10/27/25 15:12
Cleanup Method: EPA 3665A
Cleanup Date: 10/28/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/28/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0538	0.00477	1	A
Aroclor 1221	ND		mg/kg	0.0538	0.00539	1	A
Aroclor 1232	ND		mg/kg	0.0538	0.0114	1	A
Aroclor 1242	ND		mg/kg	0.0538	0.00725	1	A
Aroclor 1248	ND		mg/kg	0.0538	0.00806	1	A
Aroclor 1254	ND		mg/kg	0.0538	0.00588	1	A
Aroclor 1260	ND		mg/kg	0.0538	0.00994	1	A
Aroclor 1262	ND		mg/kg	0.0538	0.00683	1	A
Aroclor 1268	ND		mg/kg	0.0538	0.00557	1	A
PCBs, Total	ND		mg/kg	0.0538	0.00477	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	106		30-150	B
Decachlorobiphenyl	70		30-150	B

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-48
Client ID: FROG-SS-123 (17-19)
Sample Location: CARLISLE, PA

Date Collected: 10/20/25 12:42
Date Received: 10/20/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/28/25 10:39
Analyst: AKM
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 10/27/25 15:12
Cleanup Method: EPA 3665A
Cleanup Date: 10/28/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/28/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0601	0.00534	1	A
Aroclor 1221	ND		mg/kg	0.0601	0.00602	1	A
Aroclor 1232	ND		mg/kg	0.0601	0.0127	1	A
Aroclor 1242	ND		mg/kg	0.0601	0.00810	1	A
Aroclor 1248	ND		mg/kg	0.0601	0.00902	1	A
Aroclor 1254	ND		mg/kg	0.0601	0.00658	1	A
Aroclor 1260	ND		mg/kg	0.0601	0.0111	1	A
Aroclor 1262	ND		mg/kg	0.0601	0.00764	1	A
Aroclor 1268	ND		mg/kg	0.0601	0.00623	1	A
PCBs, Total	ND		mg/kg	0.0601	0.00534	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	90		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-49
Client ID: FROG-SS-DUP-104
Sample Location: CARLISLE, PA
Date Collected: 10/20/25 00:00
Date Received: 10/20/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/28/25 10:47
Analyst: AKM
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 10/27/25 15:12
Cleanup Method: EPA 3665A
Cleanup Date: 10/28/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/28/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0580	0.00515	1	A
Aroclor 1221	ND		mg/kg	0.0580	0.00582	1	A
Aroclor 1232	ND		mg/kg	0.0580	0.0123	1	A
Aroclor 1242	ND		mg/kg	0.0580	0.00782	1	A
Aroclor 1248	ND		mg/kg	0.0580	0.00871	1	A
Aroclor 1254	ND		mg/kg	0.0580	0.00635	1	A
Aroclor 1260	ND		mg/kg	0.0580	0.0107	1	A
Aroclor 1262	ND		mg/kg	0.0580	0.00737	1	A
Aroclor 1268	ND		mg/kg	0.0580	0.00601	1	A
PCBs, Total	ND		mg/kg	0.0580	0.00515	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	87		30-150	B
Decachlorobiphenyl	70		30-150	B

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-50
Client ID: FROG-SS-FB-104
Sample Location: CARLISLE, PA
Date Collected: 10/20/25 11:47
Date Received: 10/20/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 10/30/25 13:54
Analyst: EMR

Extraction Method: EPA 3510C
Extraction Date: 10/28/25 00:44
Cleanup Method: EPA 3665A
Cleanup Date: 10/28/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/28/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.250	0.021	1	A
Aroclor 1221	ND		ug/l	0.250	0.026	1	A
Aroclor 1232	ND		ug/l	0.250	0.026	1	A
Aroclor 1242	ND		ug/l	0.250	0.026	1	A
Aroclor 1248	ND		ug/l	0.250	0.026	1	A
Aroclor 1254	ND		ug/l	0.250	0.026	1	A
Aroclor 1260	ND		ug/l	0.250	0.026	1	A
Aroclor 1262	ND		ug/l	0.250	0.026	1	A
Aroclor 1268	ND		ug/l	0.250	0.026	1	A
PCBs, Total	ND		ug/l	0.250	0.021	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	48		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	45		30-150	B

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-51
Client ID: FROG-SS-124 (FLOOR)
Sample Location: CARLISLE, PA

Date Collected: 10/21/25 10:15
Date Received: 10/21/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/30/25 13:14
Analyst: EMR
Percent Solids: 96%

Extraction Method: EPA 3546
Extraction Date: 10/28/25 01:51
Cleanup Method: EPA 3665A
Cleanup Date: 10/28/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/28/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0499	0.00443	1	A
Aroclor 1221	ND		mg/kg	0.0499	0.00500	1	A
Aroclor 1232	ND		mg/kg	0.0499	0.0106	1	A
Aroclor 1242	ND		mg/kg	0.0499	0.00673	1	A
Aroclor 1248	0.0242	J	mg/kg	0.0499	0.00749	1	B
Aroclor 1254	0.0207	J	mg/kg	0.0499	0.00546	1	B
Aroclor 1260	0.0283	J	mg/kg	0.0499	0.00922	1	B
Aroclor 1262	ND		mg/kg	0.0499	0.00634	1	A
Aroclor 1268	ND		mg/kg	0.0499	0.00517	1	A
PCBs, Total	0.0732	J	mg/kg	0.0499	0.00443	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	111		30-150	A
Decachlorobiphenyl	99		30-150	A
2,4,5,6-Tetrachloro-m-xylene	110		30-150	B
Decachlorobiphenyl	106		30-150	B

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-52
Client ID: FROG-SS-125 (FLOOR)
Sample Location: CARLISLE, PA

Date Collected: 10/21/25 11:11
Date Received: 10/21/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/30/25 13:26
Analyst: EMR
Percent Solids: 99%

Extraction Method: EPA 3546
Extraction Date: 10/28/25 01:51
Cleanup Method: EPA 3665A
Cleanup Date: 10/28/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/28/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0480	0.00426	1	A
Aroclor 1221	ND		mg/kg	0.0480	0.00481	1	A
Aroclor 1232	ND		mg/kg	0.0480	0.0102	1	A
Aroclor 1242	ND		mg/kg	0.0480	0.00647	1	A
Aroclor 1248	ND		mg/kg	0.0480	0.00720	1	A
Aroclor 1254	ND		mg/kg	0.0480	0.00525	1	A
Aroclor 1260	ND		mg/kg	0.0480	0.00886	1	A
Aroclor 1262	ND		mg/kg	0.0480	0.00609	1	A
Aroclor 1268	ND		mg/kg	0.0480	0.00497	1	A
PCBs, Total	ND		mg/kg	0.0480	0.00426	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	94		30-150	A
Decachlorobiphenyl	79		30-150	A
2,4,5,6-Tetrachloro-m-xylene	92		30-150	B
Decachlorobiphenyl	81		30-150	B

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-53
Client ID: FROG-SS-126 (FLOOR)
Sample Location: CARLISLE, PA

Date Collected: 10/21/25 12:30
Date Received: 10/21/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/28/25 12:58
Analyst: AGP
Percent Solids: 99%

Extraction Method: EPA 3546
Extraction Date: 10/28/25 01:51
Cleanup Method: EPA 3665A
Cleanup Date: 10/28/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/28/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0500	0.00444	1	A
Aroclor 1221	ND		mg/kg	0.0500	0.00502	1	A
Aroclor 1232	ND		mg/kg	0.0500	0.0106	1	A
Aroclor 1242	0.0166	J	mg/kg	0.0500	0.00675	1	A
Aroclor 1248	ND		mg/kg	0.0500	0.00751	1	A
Aroclor 1254	0.0197	J	mg/kg	0.0500	0.00548	1	B
Aroclor 1260	0.00941	J	mg/kg	0.0500	0.00925	1	A
Aroclor 1262	ND		mg/kg	0.0500	0.00636	1	A
Aroclor 1268	ND		mg/kg	0.0500	0.00518	1	A
PCBs, Total	0.0457	J	mg/kg	0.0500	0.00444	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	99		30-150	A
Decachlorobiphenyl	87		30-150	A
2,4,5,6-Tetrachloro-m-xylene	102		30-150	B
Decachlorobiphenyl	91		30-150	B

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-54
Client ID: FROG-SS-127 (FLOOR)
Sample Location: CARLISLE, PA

Date Collected: 10/21/25 13:11
Date Received: 10/21/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/28/25 13:06
Analyst: AGP
Percent Solids: 99%

Extraction Method: EPA 3546
Extraction Date: 10/28/25 01:51
Cleanup Method: EPA 3665A
Cleanup Date: 10/28/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/28/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0500	0.00444	1	A
Aroclor 1221	ND		mg/kg	0.0500	0.00502	1	A
Aroclor 1232	ND		mg/kg	0.0500	0.0106	1	A
Aroclor 1242	ND		mg/kg	0.0500	0.00675	1	A
Aroclor 1248	ND		mg/kg	0.0500	0.00751	1	A
Aroclor 1254	ND		mg/kg	0.0500	0.00548	1	A
Aroclor 1260	ND		mg/kg	0.0500	0.00925	1	A
Aroclor 1262	ND		mg/kg	0.0500	0.00636	1	A
Aroclor 1268	ND		mg/kg	0.0500	0.00518	1	A
PCBs, Total	ND		mg/kg	0.0500	0.00444	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	55		30-150	A
Decachlorobiphenyl	45		30-150	A
2,4,5,6-Tetrachloro-m-xylene	**11**	Q	30-150	B
Decachlorobiphenyl	**9**	Q	30-150	B

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-56
Client ID: FROG-SS-DUP-105
Sample Location: CARLISLE, PA
Date Collected: 10/21/25 00:00
Date Received: 10/21/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/28/25 13:15
Analyst: AGP
Percent Solids: 99%

Extraction Method: EPA 3546
Extraction Date: 10/28/25 01:51
Cleanup Method: EPA 3665A
Cleanup Date: 10/28/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/28/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0491	0.00436	1	A
Aroclor 1221	ND		mg/kg	0.0491	0.00492	1	A
Aroclor 1232	ND		mg/kg	0.0491	0.0104	1	A
Aroclor 1242	0.0156	J	mg/kg	0.0491	0.00662	1	A
Aroclor 1248	ND		mg/kg	0.0491	0.00737	1	A
Aroclor 1254	0.0145	J	mg/kg	0.0491	0.00537	1	B
Aroclor 1260	0.0108	J	mg/kg	0.0491	0.00908	1	A
Aroclor 1262	ND		mg/kg	0.0491	0.00624	1	A
Aroclor 1268	ND		mg/kg	0.0491	0.00509	1	A
PCBs, Total	0.0409	J	mg/kg	0.0491	0.00436	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	100		30-150	A
Decachlorobiphenyl	91		30-150	A
2,4,5,6-Tetrachloro-m-xylene	96		30-150	B
Decachlorobiphenyl	88		30-150	B

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-57
Client ID: FROG-SS-FB-105
Sample Location: CARLISLE, PA
Date Collected: 10/21/25 12:05
Date Received: 10/21/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 10/30/25 14:02
Analyst: EMR

Extraction Method: EPA 3510C
Extraction Date: 10/28/25 00:44
Cleanup Method: EPA 3665A
Cleanup Date: 10/28/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/28/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.250	0.021	1	A
Aroclor 1221	ND		ug/l	0.250	0.026	1	A
Aroclor 1232	ND		ug/l	0.250	0.026	1	A
Aroclor 1242	ND		ug/l	0.250	0.026	1	A
Aroclor 1248	ND		ug/l	0.250	0.026	1	A
Aroclor 1254	ND		ug/l	0.250	0.026	1	A
Aroclor 1260	ND		ug/l	0.250	0.026	1	A
Aroclor 1262	ND		ug/l	0.250	0.026	1	A
Aroclor 1268	ND		ug/l	0.250	0.026	1	A
PCBs, Total	ND		ug/l	0.250	0.021	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	48		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	47		30-150	B

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-58
Client ID: FROG-SS-EB
Sample Location: CARLISLE, PA
Date Collected: 10/21/25 10:36
Date Received: 10/21/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 10/30/25 14:10
Analyst: EMR

Extraction Method: EPA 3510C
Extraction Date: 10/28/25 00:44
Cleanup Method: EPA 3665A
Cleanup Date: 10/28/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/28/25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.250	0.021	1	A
Aroclor 1221	ND		ug/l	0.250	0.026	1	A
Aroclor 1232	ND		ug/l	0.250	0.026	1	A
Aroclor 1242	ND		ug/l	0.250	0.026	1	A
Aroclor 1248	ND		ug/l	0.250	0.026	1	A
Aroclor 1254	ND		ug/l	0.250	0.026	1	A
Aroclor 1260	ND		ug/l	0.250	0.026	1	A
Aroclor 1262	ND		ug/l	0.250	0.026	1	A
Aroclor 1268	ND		ug/l	0.250	0.026	1	A
PCBs, Total	ND		ug/l	0.250	0.021	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	48		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	49		30-150	B

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 10/19/25 12:22
Analyst: SDC

Extraction Method: EPA 3510C
Extraction Date: 10/18/25 12:34
Cleanup Method: EPA 3665A
Cleanup Date: 10/18/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/18/25

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 14,27 Batch: WG2129452-1						
Aroclor 1016	ND		ug/l	0.250	0.021	A
Aroclor 1221	ND		ug/l	0.250	0.026	A
Aroclor 1232	ND		ug/l	0.250	0.026	A
Aroclor 1242	ND		ug/l	0.250	0.026	A
Aroclor 1248	ND		ug/l	0.250	0.026	A
Aroclor 1254	ND		ug/l	0.250	0.026	A
Aroclor 1260	ND		ug/l	0.250	0.026	A
Aroclor 1262	ND		ug/l	0.250	0.026	A
Aroclor 1268	ND		ug/l	0.250	0.026	A
PCBs, Total	ND		ug/l	0.250	0.021	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	70		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	80		30-150	B

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 10/20/25 09:40
Analyst: MHG

Extraction Method: EPA 3546
Extraction Date: 10/19/25 07:16
Cleanup Method: EPA 3665A
Cleanup Date: 10/19/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/19/25

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-06,15-26 Batch: WG2129729-1						
Aroclor 1016	ND		mg/kg	0.0461	0.00409	A
Aroclor 1221	ND		mg/kg	0.0461	0.00462	A
Aroclor 1232	ND		mg/kg	0.0461	0.00977	A
Aroclor 1242	ND		mg/kg	0.0461	0.00621	A
Aroclor 1248	ND		mg/kg	0.0461	0.00691	A
Aroclor 1254	ND		mg/kg	0.0461	0.00504	A
Aroclor 1260	ND		mg/kg	0.0461	0.00852	A
Aroclor 1262	ND		mg/kg	0.0461	0.00585	A
Aroclor 1268	ND		mg/kg	0.0461	0.00477	A
PCBs, Total	ND		mg/kg	0.0461	0.00409	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	49		30-150	A
Decachlorobiphenyl	75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	49		30-150	B
Decachlorobiphenyl	77		30-150	B

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 10/20/25 11:34
Analyst: MHG

Extraction Method: EPA 3546
Extraction Date: 10/19/25 17:31
Cleanup Method: EPA 3665A
Cleanup Date: 10/20/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/20/25

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 28-38 Batch: WG2129870-1						
Aroclor 1016	ND		mg/kg	0.0484	0.00430	A
Aroclor 1221	ND		mg/kg	0.0484	0.00485	A
Aroclor 1232	ND		mg/kg	0.0484	0.0103	A
Aroclor 1242	ND		mg/kg	0.0484	0.00652	A
Aroclor 1248	ND		mg/kg	0.0484	0.00726	A
Aroclor 1254	ND		mg/kg	0.0484	0.00530	A
Aroclor 1260	ND		mg/kg	0.0484	0.00894	A
Aroclor 1262	ND		mg/kg	0.0484	0.00615	A
Aroclor 1268	ND		mg/kg	0.0484	0.00501	A
PCBs, Total	ND		mg/kg	0.0484	0.00430	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	55		30-150	A
2,4,5,6-Tetrachloro-m-xylene	87		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 10/20/25 13:40
Analyst: MHG

Extraction Method: EPA 3510C
Extraction Date: 10/20/25 06:04
Cleanup Method: EPA 3665A
Cleanup Date: 10/20/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/20/25

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 39 Batch: WG2129921-1						
Aroclor 1016	ND		ug/l	0.250	0.021	A
Aroclor 1221	ND		ug/l	0.250	0.026	A
Aroclor 1232	ND		ug/l	0.250	0.026	A
Aroclor 1242	ND		ug/l	0.250	0.026	A
Aroclor 1248	ND		ug/l	0.250	0.026	A
Aroclor 1254	ND		ug/l	0.250	0.026	A
Aroclor 1260	ND		ug/l	0.250	0.026	A
Aroclor 1262	ND		ug/l	0.250	0.026	A
Aroclor 1268	ND		ug/l	0.250	0.026	A
PCBs, Total	ND		ug/l	0.250	0.021	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	95		30-150	B

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 10/28/25 07:56
Analyst: AKM

Extraction Method: EPA 3546
Extraction Date: 10/27/25 15:12
Cleanup Method: EPA 3665A
Cleanup Date: 10/28/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/28/25

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 40-49 Batch: WG2133260-1						
Aroclor 1016	ND		mg/kg	0.0498	0.00442	A
Aroclor 1221	ND		mg/kg	0.0498	0.00498	A
Aroclor 1232	ND		mg/kg	0.0498	0.0105	A
Aroclor 1242	ND		mg/kg	0.0498	0.00671	A
Aroclor 1248	ND		mg/kg	0.0498	0.00746	A
Aroclor 1254	ND		mg/kg	0.0498	0.00544	A
Aroclor 1260	ND		mg/kg	0.0498	0.00919	A
Aroclor 1262	ND		mg/kg	0.0498	0.00632	A
Aroclor 1268	ND		mg/kg	0.0498	0.00515	A
PCBs, Total	ND		mg/kg	0.0498	0.00442	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	79		30-150	A
2,4,5,6-Tetrachloro-m-xylene	92		30-150	B
Decachlorobiphenyl	78		30-150	B

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 10/30/25 13:30
Analyst: SDC

Extraction Method: EPA 3510C
Extraction Date: 10/28/25 00:44
Cleanup Method: EPA 3665A
Cleanup Date: 10/28/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/28/25

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 50,57-58 Batch: WG2133459-1						
Aroclor 1016	ND		ug/l	0.250	0.021	A
Aroclor 1221	ND		ug/l	0.250	0.026	A
Aroclor 1232	ND		ug/l	0.250	0.026	A
Aroclor 1242	ND		ug/l	0.250	0.026	A
Aroclor 1248	ND		ug/l	0.250	0.026	A
Aroclor 1254	ND		ug/l	0.250	0.026	A
Aroclor 1260	ND		ug/l	0.250	0.026	A
Aroclor 1262	ND		ug/l	0.250	0.026	A
Aroclor 1268	ND		ug/l	0.250	0.026	A
PCBs, Total	ND		ug/l	0.250	0.021	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	62		30-150	B

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 10/28/25 11:17
Analyst: AKM

Extraction Method: EPA 3546
Extraction Date: 10/28/25 01:51
Cleanup Method: EPA 3665A
Cleanup Date: 10/28/25
Cleanup Method: EPA 3660B
Cleanup Date: 10/28/25

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 51-54,56 Batch: WG2133495-1						
Aroclor 1016	ND		mg/kg	0.0462	0.00411	A
Aroclor 1221	ND		mg/kg	0.0462	0.00463	A
Aroclor 1232	ND		mg/kg	0.0462	0.00980	A
Aroclor 1242	ND		mg/kg	0.0462	0.00623	A
Aroclor 1248	ND		mg/kg	0.0462	0.00694	A
Aroclor 1254	ND		mg/kg	0.0462	0.00506	A
Aroclor 1260	ND		mg/kg	0.0462	0.00855	A
Aroclor 1262	ND		mg/kg	0.0462	0.00587	A
Aroclor 1268	ND		mg/kg	0.0462	0.00479	A
PCBs, Total	ND		mg/kg	0.0462	0.00411	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	84		30-150	A
2,4,5,6-Tetrachloro-m-xylene	58		30-150	B
Decachlorobiphenyl	88		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 14,27 Batch: WG2129452-2 WG2129452-3									
Aroclor 1016	73		76		40-140	4		50	A
Aroclor 1260	88		84		40-140	5		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		72		30-150	A
Decachlorobiphenyl	71		71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		78		30-150	B
Decachlorobiphenyl	89		93		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-06,15-26 Batch: WG2129729-2 WG2129729-3									
Aroclor 1016	72		76		40-140	5		50	A
Aroclor 1260	72		78		40-140	8		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	48		50		30-150	A
Decachlorobiphenyl	76		82		30-150	A
2,4,5,6-Tetrachloro-m-xylene	48		49		30-150	B
Decachlorobiphenyl	75		80		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 28-38 Batch: WG2129870-2 WG2129870-3									
Aroclor 1016	84		83		40-140	1		50	A
Aroclor 1260	87		90		40-140	3		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		94		30-150	A
Decachlorobiphenyl	60		62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		84		30-150	B
Decachlorobiphenyl	73		66		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 39 Batch: WG2129921-2 WG2129921-3									
Aroclor 1016	60		70		40-140	15		50	A
Aroclor 1260	71		83		40-140	16		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		66		30-150	A
Decachlorobiphenyl	57		70		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		66		30-150	B
Decachlorobiphenyl	70		80		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 40-49 Batch: WG2133260-2 WG2133260-3									
Aroclor 1016	76		76		40-140	0		50	A
Aroclor 1260	81		80		40-140	1		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		84		30-150	A
Decachlorobiphenyl	80		79		30-150	A
2,4,5,6-Tetrachloro-m-xylene	90		87		30-150	B
Decachlorobiphenyl	79		77		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 50,57-58 Batch: WG2133459-2 WG2133459-3									
Aroclor 1016	64		62		40-140	3		50	A
Aroclor 1260	73		67		40-140	9		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		62		30-150	A
Decachlorobiphenyl	69		63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		65		30-150	B
Decachlorobiphenyl	65		60		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 51-54,56 Batch: WG2133495-2 WG2133495-3									
Aroclor 1016	73		73		40-140	0		50	A
Aroclor 1260	71		71		40-140	0		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	57		55		30-150	A
Decachlorobiphenyl	85		86		30-150	A
2,4,5,6-Tetrachloro-m-xylene	56		56		30-150	B
Decachlorobiphenyl	86		88		30-150	B

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-06,15-26 QC Batch ID: WG2129729-4 WG2129729-5 QC Sample: L2565410-04 Client ID: FROG-SS-104 (13-15)													
Aroclor 1016	ND	0.366	0.226	62		0.203	57		40-140	11		50	A
Aroclor 1260	ND	0.366	0.232	63		0.193	54		40-140	18		50	A

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	40		39		30-150	A
Decachlorobiphenyl	67		56		30-150	A
2,4,5,6-Tetrachloro-m-xylene	40		40		30-150	B
Decachlorobiphenyl	67		57		30-150	B

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-06,15-26 QC Batch ID: WG2129729-6 WG2129729-7 QC Sample: L2565410-25 Client ID: FROG-SS-121 (22-24)													
Aroclor 1016	ND	0.351	0.217	62		0.254	70		40-140	16		50	A
Aroclor 1260	ND	0.351	0.233	66		0.256	71		40-140	9		50	A

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	42		46		30-150	A
Decachlorobiphenyl	71		75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	41		46		30-150	B
Decachlorobiphenyl	69		75		30-150	B

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 28-38 QC Batch ID: WG2129870-4 WG2129870-5 QC Sample: L2565410-35 Client ID: FROG-SS-116 (18.5-20.5)													
Aroclor 1016	ND	0.36	0.250	69		0.300	79		40-140	18		50	A
Aroclor 1260	ND	0.36	0.249	69		0.317	84		40-140	24		50	A

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		89		30-150	A
Decachlorobiphenyl	49		62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		85		30-150	B
Decachlorobiphenyl	52		67		30-150	B

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 40-49 QC Batch ID: WG2133260-4 WG2133260-5 QC Sample: L2565410-46 Client ID: FROG-SS-122 (30-32)													
Aroclor 1016	ND	0.43	0.316	74		0.337	74		40-140	6		50	A
Aroclor 1260	ND	0.43	0.316	74		0.340	75		40-140	7		50	A

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		84		30-150	A
Decachlorobiphenyl	73		74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		85		30-150	B
Decachlorobiphenyl	69		69		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: FROG SWITCH PHASE II

Project Number: Not Specified

Lab Number: L2565410

Report Date: 11/21/25

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*	*Column*
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 51-54,56 QC Batch ID: WG2133495-4 WG2133495-5 QC Sample: L2565410-52 Client ID: FROG-SS-125 (FLOOR)													
Aroclor 1016	ND	0.304	0.236	78		0.230	77		40-140	3		50	A
Aroclor 1260	ND	0.304	0.225	74		0.218	73		40-140	3		50	A

Surrogate	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*	*Column*
2,4,5,6-Tetrachloro-m-xylene	96		96		30-150	A
Decachlorobiphenyl	80		78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	93		91		30-150	B
Decachlorobiphenyl	82		79		30-150	B

METALS

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-01
Client ID: FROG-SS-103 (0-2)
Sample Location: CARLISLE, PA
Date Collected: 10/15/25 14:45
Date Received: 10/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	12400		mg/kg	43.7	14.2	10	10/22/25 10:32	10/24/25 13:25	EPA 3050B	1,6010D	EFM
Antimony, Total	ND		mg/kg	21.8	16.8	10	10/22/25 10:32	10/24/25 13:25	EPA 3050B	1,6010D	EFM
Arsenic, Total	16.3		mg/kg	4.37	1.89	10	10/22/25 10:32	10/24/25 13:25	EPA 3050B	1,6010D	EFM
Barium, Total	212		mg/kg	4.37	0.463	10	10/22/25 10:32	10/24/25 13:25	EPA 3050B	1,6010D	EFM
Beryllium, Total	1.68	J	mg/kg	2.18	0.240	10	10/22/25 10:32	10/24/25 13:25	EPA 3050B	1,6010D	EFM
Cadmium, Total	0.343	J	mg/kg	4.37	0.240	10	10/22/25 10:32	10/24/25 13:25	EPA 3050B	1,6010D	EFM
Calcium, Total	1180		mg/kg	43.7	24.8	10	10/22/25 10:32	10/24/25 13:25	EPA 3050B	1,6010D	EFM
Chromium, Total	110		mg/kg	4.37	3.70	10	10/22/25 10:32	10/24/25 13:25	EPA 3050B	1,6010D	EFM
Cobalt, Total	101		mg/kg	8.73	1.08	10	10/22/25 10:32	10/24/25 13:25	EPA 3050B	1,6010D	EFM
Copper, Total	16.0		mg/kg	4.37	0.991	10	10/22/25 10:32	10/24/25 13:25	EPA 3050B	1,6010D	EFM
Iron, Total	73500		mg/kg	21.8	4.58	10	10/22/25 10:32	10/24/25 13:25	EPA 3050B	1,6010D	EFM
Lead, Total	46.0		mg/kg	21.8	1.04	10	10/22/25 10:32	10/24/25 13:25	EPA 3050B	1,6010D	EFM
Magnesium, Total	475		mg/kg	43.7	7.12	10	10/22/25 10:32	10/24/25 13:25	EPA 3050B	1,6010D	EFM
Manganese, Total	4780		mg/kg	4.37	2.34	10	10/22/25 10:32	10/24/25 13:25	EPA 3050B	1,6010D	EFM
Mercury, Total	0.081	J	mg/kg	0.092	0.060	1	10/22/25 11:41	10/23/25 23:40	EPA 7471B	1,7471B	RDB
Nickel, Total	36.6		mg/kg	10.9	3.53	10	10/22/25 10:32	10/24/25 13:25	EPA 3050B	1,6010D	EFM
Potassium, Total	285	J	mg/kg	1090	221.	10	10/22/25 10:32	10/24/25 13:25	EPA 3050B	1,6010D	EFM
Selenium, Total	ND		mg/kg	8.73	1.44	10	10/22/25 10:32	10/24/25 13:25	EPA 3050B	1,6010D	EFM
Silver, Total	ND		mg/kg	2.18	1.30	10	10/22/25 10:32	10/24/25 13:25	EPA 3050B	1,6010D	EFM
Sodium, Total	ND		mg/kg	873	463.	10	10/22/25 10:32	10/24/25 13:25	EPA 3050B	1,6010D	EFM
Thallium, Total	ND		mg/kg	8.73	3.94	10	10/22/25 10:32	10/24/25 13:25	EPA 3050B	1,6010D	EFM
Vanadium, Total	81.6		mg/kg	4.37	0.659	10	10/22/25 10:32	10/24/25 13:25	EPA 3050B	1,6010D	EFM
Zinc, Total	36.8		mg/kg	21.8	2.65	10	10/22/25 10:32	10/24/25 13:25	EPA 3050B	1,6010D	EFM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	109		mg/kg	4.37	3.70	1		10/24/25 15:18	NA	107,-	

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-02
Client ID: FROG-SS-103 (28-30)
Sample Location: CARLISLE, PA
Date Collected: 10/15/25 15:13
Date Received: 10/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 70%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	11200		mg/kg	28.0	9.11	5	10/22/25 10:32	10/24/25 14:30	EPA 3050B	1,6010D	EFM
Antimony, Total	ND		mg/kg	14.0	10.8	5	10/22/25 10:32	10/24/25 14:30	EPA 3050B	1,6010D	EFM
Arsenic, Total	10.2		mg/kg	2.80	1.21	5	10/22/25 10:32	10/24/25 14:30	EPA 3050B	1,6010D	EFM
Barium, Total	63.6		mg/kg	2.80	0.297	5	10/22/25 10:32	10/24/25 14:30	EPA 3050B	1,6010D	EFM
Beryllium, Total	3.35		mg/kg	1.40	0.154	5	10/22/25 10:32	10/24/25 14:30	EPA 3050B	1,6010D	EFM
Cadmium, Total	0.212	J	mg/kg	2.80	0.154	5	10/22/25 10:32	10/24/25 14:30	EPA 3050B	1,6010D	EFM
Calcium, Total	2320		mg/kg	28.0	15.9	5	10/22/25 10:32	10/24/25 14:30	EPA 3050B	1,6010D	EFM
Chromium, Total	32.4		mg/kg	2.80	2.38	5	10/22/25 10:32	10/24/25 14:30	EPA 3050B	1,6010D	EFM
Cobalt, Total	14.7		mg/kg	5.61	0.695	5	10/22/25 10:32	10/24/25 14:30	EPA 3050B	1,6010D	EFM
Copper, Total	26.8		mg/kg	2.80	0.636	5	10/22/25 10:32	10/24/25 14:30	EPA 3050B	1,6010D	EFM
Iron, Total	36600		mg/kg	14.0	2.94	5	10/22/25 10:32	10/24/25 14:30	EPA 3050B	1,6010D	EFM
Lead, Total	17.8		mg/kg	14.0	0.667	5	10/22/25 10:32	10/24/25 14:30	EPA 3050B	1,6010D	EFM
Magnesium, Total	1350		mg/kg	28.0	4.57	5	10/22/25 10:32	10/24/25 14:30	EPA 3050B	1,6010D	EFM
Manganese, Total	141		mg/kg	2.80	1.50	5	10/22/25 10:32	10/24/25 14:30	EPA 3050B	1,6010D	EFM
Mercury, Total	0.096	J	mg/kg	0.114	0.075	1	10/22/25 11:41	10/23/25 23:43	EPA 7471B	1,7471B	RDB
Nickel, Total	35.3		mg/kg	7.01	2.26	5	10/22/25 10:32	10/24/25 14:30	EPA 3050B	1,6010D	EFM
Potassium, Total	639	J	mg/kg	701	142.	5	10/22/25 10:32	10/24/25 14:30	EPA 3050B	1,6010D	EFM
Selenium, Total	ND		mg/kg	5.61	0.922	5	10/22/25 10:32	10/24/25 14:30	EPA 3050B	1,6010D	EFM
Silver, Total	ND		mg/kg	1.40	0.836	5	10/22/25 10:32	10/24/25 14:30	EPA 3050B	1,6010D	EFM
Sodium, Total	ND		mg/kg	561	297.	5	10/22/25 10:32	10/24/25 14:30	EPA 3050B	1,6010D	EFM
Thallium, Total	ND		mg/kg	5.61	2.53	5	10/22/25 10:32	10/24/25 14:30	EPA 3050B	1,6010D	EFM
Vanadium, Total	41.4		mg/kg	2.80	0.423	5	10/22/25 10:32	10/24/25 14:30	EPA 3050B	1,6010D	EFM
Zinc, Total	58.0		mg/kg	14.0	1.70	5	10/22/25 10:32	10/24/25 14:30	EPA 3050B	1,6010D	EFM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	32.4		mg/kg	2.80	2.38	1		10/24/25 15:18	NA	107,-	

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-03
Client ID: FROG-SS-104 (0-2)
Sample Location: CARLISLE, PA
Date Collected: 10/15/25 13:43
Date Received: 10/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	13200		mg/kg	23.7	7.71	5	10/22/25 10:32	10/24/25 14:33	EPA 3050B	1,6010D	EFM
Antimony, Total	ND		mg/kg	11.9	9.14	5	10/22/25 10:32	10/24/25 14:33	EPA 3050B	1,6010D	EFM
Arsenic, Total	7.64		mg/kg	2.37	1.02	5	10/22/25 10:32	10/24/25 14:33	EPA 3050B	1,6010D	EFM
Barium, Total	37.0		mg/kg	2.37	0.252	5	10/22/25 10:32	10/24/25 14:33	EPA 3050B	1,6010D	EFM
Beryllium, Total	1.08	J	mg/kg	1.19	0.130	5	10/22/25 10:32	10/24/25 14:33	EPA 3050B	1,6010D	EFM
Cadmium, Total	ND		mg/kg	2.37	0.130	5	10/22/25 10:32	10/24/25 14:33	EPA 3050B	1,6010D	EFM
Calcium, Total	1470		mg/kg	23.7	13.4	5	10/22/25 10:32	10/24/25 14:33	EPA 3050B	1,6010D	EFM
Chromium, Total	33.3		mg/kg	2.37	2.01	5	10/22/25 10:32	10/24/25 14:33	EPA 3050B	1,6010D	EFM
Cobalt, Total	32.7		mg/kg	4.75	0.588	5	10/22/25 10:32	10/24/25 14:33	EPA 3050B	1,6010D	EFM
Copper, Total	19.4		mg/kg	2.37	0.539	5	10/22/25 10:32	10/24/25 14:33	EPA 3050B	1,6010D	EFM
Iron, Total	35600		mg/kg	11.9	2.49	5	10/22/25 10:32	10/24/25 14:33	EPA 3050B	1,6010D	EFM
Lead, Total	21.0		mg/kg	11.9	0.565	5	10/22/25 10:32	10/24/25 14:33	EPA 3050B	1,6010D	EFM
Magnesium, Total	10000		mg/kg	23.7	3.87	5	10/22/25 10:32	10/24/25 14:33	EPA 3050B	1,6010D	EFM
Manganese, Total	715		mg/kg	2.37	1.27	5	10/22/25 10:32	10/24/25 14:33	EPA 3050B	1,6010D	EFM
Mercury, Total	ND		mg/kg	0.081	0.053	1	10/22/25 11:41	10/23/25 23:45	EPA 7471B	1,7471B	RDB
Nickel, Total	103		mg/kg	5.93	1.92	5	10/22/25 10:32	10/24/25 14:33	EPA 3050B	1,6010D	EFM
Potassium, Total	538	J	mg/kg	593	120.	5	10/22/25 10:32	10/24/25 14:33	EPA 3050B	1,6010D	EFM
Selenium, Total	ND		mg/kg	4.75	0.781	5	10/22/25 10:32	10/24/25 14:33	EPA 3050B	1,6010D	EFM
Silver, Total	ND		mg/kg	1.19	0.707	5	10/22/25 10:32	10/24/25 14:33	EPA 3050B	1,6010D	EFM
Sodium, Total	ND		mg/kg	475	252.	5	10/22/25 10:32	10/24/25 14:33	EPA 3050B	1,6010D	EFM
Thallium, Total	ND		mg/kg	4.75	2.14	5	10/22/25 10:32	10/24/25 14:33	EPA 3050B	1,6010D	EFM
Vanadium, Total	40.3		mg/kg	2.37	0.358	5	10/22/25 10:32	10/24/25 14:33	EPA 3050B	1,6010D	EFM
Zinc, Total	33.6		mg/kg	11.9	1.44	5	10/22/25 10:32	10/24/25 14:33	EPA 3050B	1,6010D	EFM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	33.3		mg/kg	2.37	2.01	1		10/24/25 15:18	NA	107,-	

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-04
Client ID: FROG-SS-104 (13-15)
Sample Location: CARLISLE, PA
Date Collected: 10/15/25 13:47
Date Received: 10/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	12400		mg/kg	9.57	3.11	2	10/23/25 03:08	10/24/25 10:42	EPA 3050B	1,6010D	EFM
Antimony, Total	ND		mg/kg	4.79	3.68	2	10/23/25 03:08	10/24/25 10:42	EPA 3050B	1,6010D	EFM
Arsenic, Total	10.5		mg/kg	0.957	0.414	2	10/23/25 03:08	10/24/25 10:42	EPA 3050B	1,6010D	EFM
Barium, Total	95.9		mg/kg	0.957	0.101	2	10/23/25 03:08	10/24/25 10:42	EPA 3050B	1,6010D	EFM
Beryllium, Total	1.38		mg/kg	0.479	0.053	2	10/23/25 03:08	10/24/25 10:42	EPA 3050B	1,6010D	EFM
Cadmium, Total	0.107	J	mg/kg	0.957	0.053	2	10/23/25 03:08	10/24/25 10:42	EPA 3050B	1,6010D	EFM
Calcium, Total	1230		mg/kg	9.57	5.43	2	10/23/25 03:08	10/24/25 10:42	EPA 3050B	1,6010D	EFM
Chromium, Total	25.1		mg/kg	0.957	0.812	2	10/23/25 03:08	10/24/25 10:42	EPA 3050B	1,6010D	EFM
Cobalt, Total	12.3		mg/kg	1.91	0.237	2	10/23/25 03:08	10/24/25 10:42	EPA 3050B	1,6010D	EFM
Copper, Total	14.9		mg/kg	0.957	0.217	2	10/23/25 03:08	10/24/25 10:42	EPA 3050B	1,6010D	EFM
Iron, Total	27300		mg/kg	4.79	1.00	2	10/23/25 03:08	10/24/25 10:42	EPA 3050B	1,6010D	EFM
Lead, Total	13.6		mg/kg	4.79	0.228	2	10/23/25 03:08	10/24/25 10:42	EPA 3050B	1,6010D	EFM
Magnesium, Total	2680		mg/kg	9.57	1.56	2	10/23/25 03:08	10/24/25 10:42	EPA 3050B	1,6010D	EFM
Manganese, Total	471		mg/kg	0.957	0.513	2	10/23/25 03:08	10/24/25 10:42	EPA 3050B	1,6010D	EFM
Mercury, Total	ND		mg/kg	0.090	0.059	1	10/23/25 03:27	10/23/25 20:09	EPA 7471B	1,7471B	RDB
Nickel, Total	20.9		mg/kg	2.39	0.774	2	10/23/25 03:08	10/24/25 10:42	EPA 3050B	1,6010D	EFM
Potassium, Total	681		mg/kg	239	48.5	2	10/23/25 03:08	10/24/25 10:42	EPA 3050B	1,6010D	EFM
Selenium, Total	ND		mg/kg	1.91	0.315	2	10/23/25 03:08	10/24/25 10:42	EPA 3050B	1,6010D	EFM
Silver, Total	ND		mg/kg	0.479	0.285	2	10/23/25 03:08	10/24/25 10:42	EPA 3050B	1,6010D	EFM
Sodium, Total	ND		mg/kg	191	101.	2	10/23/25 03:08	10/24/25 10:42	EPA 3050B	1,6010D	EFM
Thallium, Total	ND		mg/kg	1.91	0.864	2	10/23/25 03:08	10/24/25 10:42	EPA 3050B	1,6010D	EFM
Vanadium, Total	35.6		mg/kg	0.957	0.144	2	10/23/25 03:08	10/24/25 10:42	EPA 3050B	1,6010D	EFM
Zinc, Total	44.4		mg/kg	4.79	0.580	2	10/23/25 03:08	10/24/25 10:42	EPA 3050B	1,6010D	EFM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	25.1		mg/kg	0.992	0.812	1		10/24/25 15:18	NA	107,-	

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-05
Client ID: FROG-SS-105 (1-3)
Sample Location: CARLISLE, PA
Date Collected: 10/15/25 11:52
Date Received: 10/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7620		mg/kg	45.2	14.7	10	10/22/25 10:32	10/24/25 14:35	EPA 3050B	1,6010D	EFM
Antimony, Total	ND		mg/kg	22.6	17.4	10	10/22/25 10:32	10/24/25 14:35	EPA 3050B	1,6010D	EFM
Arsenic, Total	138		mg/kg	4.52	1.95	10	10/22/25 10:32	10/24/25 14:35	EPA 3050B	1,6010D	EFM
Barium, Total	102		mg/kg	4.52	0.479	10	10/22/25 10:32	10/24/25 14:35	EPA 3050B	1,6010D	EFM
Beryllium, Total	0.696	J	mg/kg	2.26	0.248	10	10/22/25 10:32	10/24/25 14:35	EPA 3050B	1,6010D	EFM
Cadmium, Total	ND		mg/kg	4.52	0.248	10	10/22/25 10:32	10/24/25 14:35	EPA 3050B	1,6010D	EFM
Calcium, Total	18500		mg/kg	45.2	25.6	10	10/22/25 10:32	10/24/25 14:35	EPA 3050B	1,6010D	EFM
Chromium, Total	96.6		mg/kg	4.52	3.83	10	10/22/25 10:32	10/24/25 14:35	EPA 3050B	1,6010D	EFM
Cobalt, Total	18.2		mg/kg	9.03	1.12	10	10/22/25 10:32	10/24/25 14:35	EPA 3050B	1,6010D	EFM
Copper, Total	140		mg/kg	4.52	1.02	10	10/22/25 10:32	10/24/25 14:35	EPA 3050B	1,6010D	EFM
Iron, Total	64600		mg/kg	22.6	4.74	10	10/22/25 10:32	10/24/25 14:35	EPA 3050B	1,6010D	EFM
Lead, Total	79.5		mg/kg	22.6	1.07	10	10/22/25 10:32	10/24/25 14:35	EPA 3050B	1,6010D	EFM
Magnesium, Total	8020		mg/kg	45.2	7.36	10	10/22/25 10:32	10/24/25 14:35	EPA 3050B	1,6010D	EFM
Manganese, Total	8830		mg/kg	4.52	2.42	10	10/22/25 10:32	10/24/25 14:35	EPA 3050B	1,6010D	EFM
Mercury, Total	0.062	J	mg/kg	0.091	0.059	1	10/22/25 11:41	10/23/25 23:54	EPA 7471B	1,7471B	RDB
Nickel, Total	96.8		mg/kg	11.3	3.65	10	10/22/25 10:32	10/24/25 14:35	EPA 3050B	1,6010D	EFM
Potassium, Total	488	J	mg/kg	1130	229.	10	10/22/25 10:32	10/24/25 14:35	EPA 3050B	1,6010D	EFM
Selenium, Total	ND		mg/kg	9.03	1.48	10	10/22/25 10:32	10/24/25 14:35	EPA 3050B	1,6010D	EFM
Silver, Total	ND		mg/kg	2.26	1.34	10	10/22/25 10:32	10/24/25 14:35	EPA 3050B	1,6010D	EFM
Sodium, Total	ND		mg/kg	903	479.	10	10/22/25 10:32	10/24/25 14:35	EPA 3050B	1,6010D	EFM
Thallium, Total	ND		mg/kg	9.03	4.07	10	10/22/25 10:32	10/24/25 14:35	EPA 3050B	1,6010D	EFM
Vanadium, Total	28.5		mg/kg	4.52	0.682	10	10/22/25 10:32	10/24/25 14:35	EPA 3050B	1,6010D	EFM
Zinc, Total	88.8		mg/kg	22.6	2.74	10	10/22/25 10:32	10/24/25 14:35	EPA 3050B	1,6010D	EFM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	96.6		mg/kg	4.52	3.83	1		10/24/25 15:18	NA	107,-	

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-06
Client ID: FROG-SS-105 (13-15)
Sample Location: CARLISLE, PA
Date Collected: 10/15/25 11:54
Date Received: 10/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 74%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	11700		mg/kg	25.8	8.37	5	10/22/25 10:32	10/24/25 14:37	EPA 3050B	1,6010D	EFM
Antimony, Total	ND		mg/kg	12.9	9.92	5	10/22/25 10:32	10/24/25 14:37	EPA 3050B	1,6010D	EFM
Arsenic, Total	23.8		mg/kg	2.58	1.11	5	10/22/25 10:32	10/24/25 14:37	EPA 3050B	1,6010D	EFM
Barium, Total	62.3		mg/kg	2.58	0.273	5	10/22/25 10:32	10/24/25 14:37	EPA 3050B	1,6010D	EFM
Beryllium, Total	5.80		mg/kg	1.29	0.142	5	10/22/25 10:32	10/24/25 14:37	EPA 3050B	1,6010D	EFM
Cadmium, Total	0.209	J	mg/kg	2.58	0.142	5	10/22/25 10:32	10/24/25 14:37	EPA 3050B	1,6010D	EFM
Calcium, Total	3270		mg/kg	25.8	14.6	5	10/22/25 10:32	10/24/25 14:37	EPA 3050B	1,6010D	EFM
Chromium, Total	29.4		mg/kg	2.58	2.18	5	10/22/25 10:32	10/24/25 14:37	EPA 3050B	1,6010D	EFM
Cobalt, Total	9.66		mg/kg	5.15	0.639	5	10/22/25 10:32	10/24/25 14:37	EPA 3050B	1,6010D	EFM
Copper, Total	45.8		mg/kg	2.58	0.585	5	10/22/25 10:32	10/24/25 14:37	EPA 3050B	1,6010D	EFM
Iron, Total	50400		mg/kg	12.9	2.70	5	10/22/25 10:32	10/24/25 14:37	EPA 3050B	1,6010D	EFM
Lead, Total	22.3		mg/kg	12.9	0.613	5	10/22/25 10:32	10/24/25 14:37	EPA 3050B	1,6010D	EFM
Magnesium, Total	892		mg/kg	25.8	4.20	5	10/22/25 10:32	10/24/25 14:37	EPA 3050B	1,6010D	EFM
Manganese, Total	502		mg/kg	2.58	1.38	5	10/22/25 10:32	10/24/25 14:37	EPA 3050B	1,6010D	EFM
Mercury, Total	0.144		mg/kg	0.087	0.057	1	10/22/25 11:41	10/23/25 23:57	EPA 7471B	1,7471B	RDB
Nickel, Total	44.9		mg/kg	6.44	2.08	5	10/22/25 10:32	10/24/25 14:37	EPA 3050B	1,6010D	EFM
Potassium, Total	522	J	mg/kg	644	131.	5	10/22/25 10:32	10/24/25 14:37	EPA 3050B	1,6010D	EFM
Selenium, Total	ND		mg/kg	5.15	0.848	5	10/22/25 10:32	10/24/25 14:37	EPA 3050B	1,6010D	EFM
Silver, Total	ND		mg/kg	1.29	0.768	5	10/22/25 10:32	10/24/25 14:37	EPA 3050B	1,6010D	EFM
Sodium, Total	ND		mg/kg	515	273.	5	10/22/25 10:32	10/24/25 14:37	EPA 3050B	1,6010D	EFM
Thallium, Total	ND		mg/kg	5.15	2.32	5	10/22/25 10:32	10/24/25 14:37	EPA 3050B	1,6010D	EFM
Vanadium, Total	62.6		mg/kg	2.58	0.389	5	10/22/25 10:32	10/24/25 14:37	EPA 3050B	1,6010D	EFM
Zinc, Total	67.3		mg/kg	12.9	1.56	5	10/22/25 10:32	10/24/25 14:37	EPA 3050B	1,6010D	EFM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	29.2	J	mg/kg	2.58	2.18	1		10/24/25 15:18	NA	107,-	

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-07
Client ID: FROG-SS-108 (1-3)
Sample Location: CARLISLE, PA
Date Collected: 10/15/25 09:50
Date Received: 10/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7740		mg/kg	9.74	3.17	2	10/22/25 10:32	10/24/25 14:39	EPA 3050B	1,6010D	EFM
Antimony, Total	ND		mg/kg	4.87	3.75	2	10/22/25 10:32	10/24/25 14:39	EPA 3050B	1,6010D	EFM
Arsenic, Total	38.0		mg/kg	0.974	0.421	2	10/22/25 10:32	10/24/25 14:39	EPA 3050B	1,6010D	EFM
Barium, Total	374		mg/kg	0.974	0.103	2	10/22/25 10:32	10/24/25 14:39	EPA 3050B	1,6010D	EFM
Beryllium, Total	1.71		mg/kg	0.487	0.054	2	10/22/25 10:32	10/24/25 14:39	EPA 3050B	1,6010D	EFM
Cadmium, Total	0.158	J	mg/kg	0.974	0.054	2	10/22/25 10:32	10/24/25 14:39	EPA 3050B	1,6010D	EFM
Calcium, Total	13200		mg/kg	9.74	5.52	2	10/22/25 10:32	10/24/25 14:39	EPA 3050B	1,6010D	EFM
Chromium, Total	16.0		mg/kg	0.974	0.826	2	10/22/25 10:32	10/24/25 14:39	EPA 3050B	1,6010D	EFM
Cobalt, Total	14.0		mg/kg	1.95	0.242	2	10/22/25 10:32	10/24/25 14:39	EPA 3050B	1,6010D	EFM
Copper, Total	76.8		mg/kg	0.974	0.221	2	10/22/25 10:32	10/24/25 14:39	EPA 3050B	1,6010D	EFM
Iron, Total	19400		mg/kg	4.87	1.02	2	10/22/25 10:32	10/24/25 14:39	EPA 3050B	1,6010D	EFM
Lead, Total	115		mg/kg	4.87	0.232	2	10/22/25 10:32	10/24/25 14:39	EPA 3050B	1,6010D	EFM
Magnesium, Total	1790		mg/kg	9.74	1.59	2	10/22/25 10:32	10/24/25 14:39	EPA 3050B	1,6010D	EFM
Manganese, Total	443		mg/kg	0.974	0.522	2	10/22/25 10:32	10/24/25 14:39	EPA 3050B	1,6010D	EFM
Mercury, Total	0.237		mg/kg	0.094	0.061	1	10/22/25 11:41	10/24/25 00:00	EPA 7471B	1,7471B	RDB
Nickel, Total	24.0		mg/kg	2.44	0.787	2	10/22/25 10:32	10/24/25 14:39	EPA 3050B	1,6010D	EFM
Potassium, Total	580		mg/kg	244	49.4	2	10/22/25 10:32	10/24/25 14:39	EPA 3050B	1,6010D	EFM
Selenium, Total	0.795	J	mg/kg	1.95	0.321	2	10/22/25 10:32	10/24/25 14:39	EPA 3050B	1,6010D	EFM
Silver, Total	0.460	J	mg/kg	0.487	0.290	2	10/22/25 10:32	10/24/25 14:39	EPA 3050B	1,6010D	EFM
Sodium, Total	392		mg/kg	195	103.	2	10/22/25 10:32	10/24/25 14:39	EPA 3050B	1,6010D	EFM
Thallium, Total	ND		mg/kg	1.95	0.879	2	10/22/25 10:32	10/24/25 14:39	EPA 3050B	1,6010D	EFM
Vanadium, Total	49.0		mg/kg	0.974	0.147	2	10/22/25 10:32	10/24/25 14:39	EPA 3050B	1,6010D	EFM
Zinc, Total	216		mg/kg	4.87	0.590	2	10/22/25 10:32	10/24/25 14:39	EPA 3050B	1,6010D	EFM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	16.0		mg/kg	1.03	0.826	1		10/24/25 15:18	NA	107,-	

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-08
Client ID: FROG-SS-108 (5.5-7.5)
Sample Location: CARLISLE, PA
Date Collected: 10/15/25 09:56
Date Received: 10/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	13600		mg/kg	10.3	3.35	2	10/22/25 10:32	10/24/25 14:41	EPA 3050B	1,6010D	EFM
Antimony, Total	ND		mg/kg	5.16	3.97	2	10/22/25 10:32	10/24/25 14:41	EPA 3050B	1,6010D	EFM
Arsenic, Total	16.9		mg/kg	1.03	0.446	2	10/22/25 10:32	10/24/25 14:41	EPA 3050B	1,6010D	EFM
Barium, Total	68.8		mg/kg	1.03	0.109	2	10/22/25 10:32	10/24/25 14:41	EPA 3050B	1,6010D	EFM
Beryllium, Total	3.51		mg/kg	0.516	0.057	2	10/22/25 10:32	10/24/25 14:41	EPA 3050B	1,6010D	EFM
Cadmium, Total	ND		mg/kg	1.03	0.057	2	10/22/25 10:32	10/24/25 14:41	EPA 3050B	1,6010D	EFM
Calcium, Total	44900		mg/kg	10.3	5.85	2	10/22/25 10:32	10/24/25 14:41	EPA 3050B	1,6010D	EFM
Chromium, Total	20.7		mg/kg	1.03	0.875	2	10/22/25 10:32	10/24/25 14:41	EPA 3050B	1,6010D	EFM
Cobalt, Total	9.14		mg/kg	2.06	0.256	2	10/22/25 10:32	10/24/25 14:41	EPA 3050B	1,6010D	EFM
Copper, Total	21.0		mg/kg	1.03	0.234	2	10/22/25 10:32	10/24/25 14:41	EPA 3050B	1,6010D	EFM
Iron, Total	29600		mg/kg	5.16	1.08	2	10/22/25 10:32	10/24/25 14:41	EPA 3050B	1,6010D	EFM
Lead, Total	17.6		mg/kg	5.16	0.246	2	10/22/25 10:32	10/24/25 14:41	EPA 3050B	1,6010D	EFM
Magnesium, Total	18200		mg/kg	10.3	1.68	2	10/22/25 10:32	10/24/25 14:41	EPA 3050B	1,6010D	EFM
Manganese, Total	598		mg/kg	1.03	0.553	2	10/22/25 10:32	10/24/25 14:41	EPA 3050B	1,6010D	EFM
Mercury, Total	0.088		mg/kg	0.085	0.056	1	10/22/25 11:41	10/24/25 00:03	EPA 7471B	1,7471B	RDB
Nickel, Total	30.6		mg/kg	2.58	0.833	2	10/22/25 10:32	10/24/25 14:41	EPA 3050B	1,6010D	EFM
Potassium, Total	713		mg/kg	258	52.3	2	10/22/25 10:32	10/24/25 14:41	EPA 3050B	1,6010D	EFM
Selenium, Total	ND		mg/kg	2.06	0.339	2	10/22/25 10:32	10/24/25 14:41	EPA 3050B	1,6010D	EFM
Silver, Total	ND		mg/kg	0.516	0.307	2	10/22/25 10:32	10/24/25 14:41	EPA 3050B	1,6010D	EFM
Sodium, Total	142	J	mg/kg	206	109.	2	10/22/25 10:32	10/24/25 14:41	EPA 3050B	1,6010D	EFM
Thallium, Total	ND		mg/kg	2.06	0.930	2	10/22/25 10:32	10/24/25 14:41	EPA 3050B	1,6010D	EFM
Vanadium, Total	34.0		mg/kg	1.03	0.156	2	10/22/25 10:32	10/24/25 14:41	EPA 3050B	1,6010D	EFM
Zinc, Total	43.0		mg/kg	5.16	0.625	2	10/22/25 10:32	10/24/25 14:41	EPA 3050B	1,6010D	EFM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	20.2	J	mg/kg	1.04	0.875	1		10/24/25 15:18	NA	107,-	

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-09
Client ID: FROG-SS-109 (2.5-4.5)
Sample Location: CARLISLE, PA
Date Collected: 10/15/25 09:58
Date Received: 10/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	11100		mg/kg	9.30	3.02	2	10/22/25 10:32	10/24/25 14:44	EPA 3050B	1,6010D	EFM
Antimony, Total	ND		mg/kg	4.65	3.58	2	10/22/25 10:32	10/24/25 14:44	EPA 3050B	1,6010D	EFM
Arsenic, Total	5.95		mg/kg	0.930	0.402	2	10/22/25 10:32	10/24/25 14:44	EPA 3050B	1,6010D	EFM
Barium, Total	152		mg/kg	0.930	0.099	2	10/22/25 10:32	10/24/25 14:44	EPA 3050B	1,6010D	EFM
Beryllium, Total	1.10		mg/kg	0.465	0.051	2	10/22/25 10:32	10/24/25 14:44	EPA 3050B	1,6010D	EFM
Cadmium, Total	0.093	J	mg/kg	0.930	0.051	2	10/22/25 10:32	10/24/25 14:44	EPA 3050B	1,6010D	EFM
Calcium, Total	1520		mg/kg	9.30	5.28	2	10/22/25 10:32	10/24/25 14:44	EPA 3050B	1,6010D	EFM
Chromium, Total	20.2		mg/kg	0.930	0.789	2	10/22/25 10:32	10/24/25 14:44	EPA 3050B	1,6010D	EFM
Cobalt, Total	11.2		mg/kg	1.86	0.231	2	10/22/25 10:32	10/24/25 14:44	EPA 3050B	1,6010D	EFM
Copper, Total	9.33		mg/kg	0.930	0.211	2	10/22/25 10:32	10/24/25 14:44	EPA 3050B	1,6010D	EFM
Iron, Total	21000		mg/kg	4.65	0.977	2	10/22/25 10:32	10/24/25 14:44	EPA 3050B	1,6010D	EFM
Lead, Total	17.4		mg/kg	4.65	0.221	2	10/22/25 10:32	10/24/25 14:44	EPA 3050B	1,6010D	EFM
Magnesium, Total	1400		mg/kg	9.30	1.52	2	10/22/25 10:32	10/24/25 14:44	EPA 3050B	1,6010D	EFM
Manganese, Total	920		mg/kg	0.930	0.499	2	10/22/25 10:32	10/24/25 14:44	EPA 3050B	1,6010D	EFM
Mercury, Total	ND		mg/kg	0.078	0.051	1	10/22/25 11:41	10/24/25 00:06	EPA 7471B	1,7471B	RDB
Nickel, Total	11.4		mg/kg	2.33	0.752	2	10/22/25 10:32	10/24/25 14:44	EPA 3050B	1,6010D	EFM
Potassium, Total	511		mg/kg	233	47.2	2	10/22/25 10:32	10/24/25 14:44	EPA 3050B	1,6010D	EFM
Selenium, Total	0.502	J	mg/kg	1.86	0.306	2	10/22/25 10:32	10/24/25 14:44	EPA 3050B	1,6010D	EFM
Silver, Total	ND		mg/kg	0.465	0.277	2	10/22/25 10:32	10/24/25 14:44	EPA 3050B	1,6010D	EFM
Sodium, Total	490		mg/kg	186	98.6	2	10/22/25 10:32	10/24/25 14:44	EPA 3050B	1,6010D	EFM
Thallium, Total	ND		mg/kg	1.86	0.839	2	10/22/25 10:32	10/24/25 14:44	EPA 3050B	1,6010D	EFM
Vanadium, Total	30.8		mg/kg	0.930	0.140	2	10/22/25 10:32	10/24/25 14:44	EPA 3050B	1,6010D	EFM
Zinc, Total	51.3		mg/kg	4.65	0.564	2	10/22/25 10:32	10/24/25 14:44	EPA 3050B	1,6010D	EFM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	20.2		mg/kg	0.974	0.789	1		10/24/25 15:18	NA	107,-	

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-10
Client ID: FROG-SS-109 (8-10)
Sample Location: CARLISLE, PA
Date Collected: 10/15/25 08:47
Date Received: 10/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	15600		mg/kg	23.9	7.77	5	10/22/25 10:32	10/24/25 14:46	EPA 3050B	1,6010D	EFM
Antimony, Total	ND		mg/kg	12.0	9.21	5	10/22/25 10:32	10/24/25 14:46	EPA 3050B	1,6010D	EFM
Arsenic, Total	11.1		mg/kg	2.39	1.03	5	10/22/25 10:32	10/24/25 14:46	EPA 3050B	1,6010D	EFM
Barium, Total	55.8		mg/kg	2.39	0.253	5	10/22/25 10:32	10/24/25 14:46	EPA 3050B	1,6010D	EFM
Beryllium, Total	1.99		mg/kg	1.20	0.132	5	10/22/25 10:32	10/24/25 14:46	EPA 3050B	1,6010D	EFM
Cadmium, Total	0.367	J	mg/kg	2.39	0.132	5	10/22/25 10:32	10/24/25 14:46	EPA 3050B	1,6010D	EFM
Calcium, Total	2080		mg/kg	23.9	13.6	5	10/22/25 10:32	10/24/25 14:46	EPA 3050B	1,6010D	EFM
Chromium, Total	42.0		mg/kg	2.39	2.03	5	10/22/25 10:32	10/24/25 14:46	EPA 3050B	1,6010D	EFM
Cobalt, Total	27.8		mg/kg	4.78	0.593	5	10/22/25 10:32	10/24/25 14:46	EPA 3050B	1,6010D	EFM
Copper, Total	21.6		mg/kg	2.39	0.543	5	10/22/25 10:32	10/24/25 14:46	EPA 3050B	1,6010D	EFM
Iron, Total	56900		mg/kg	12.0	2.51	5	10/22/25 10:32	10/24/25 14:46	EPA 3050B	1,6010D	EFM
Lead, Total	17.4		mg/kg	12.0	0.569	5	10/22/25 10:32	10/24/25 14:46	EPA 3050B	1,6010D	EFM
Magnesium, Total	991		mg/kg	23.9	3.90	5	10/22/25 10:32	10/24/25 14:46	EPA 3050B	1,6010D	EFM
Manganese, Total	1420		mg/kg	2.39	1.28	5	10/22/25 10:32	10/24/25 14:46	EPA 3050B	1,6010D	EFM
Mercury, Total	0.132		mg/kg	0.085	0.055	1	10/22/25 11:41	10/24/25 00:09	EPA 7471B	1,7471B	RDB
Nickel, Total	33.4		mg/kg	5.98	1.93	5	10/22/25 10:32	10/24/25 14:46	EPA 3050B	1,6010D	EFM
Potassium, Total	639		mg/kg	598	121.	5	10/22/25 10:32	10/24/25 14:46	EPA 3050B	1,6010D	EFM
Selenium, Total	ND		mg/kg	4.78	0.787	5	10/22/25 10:32	10/24/25 14:46	EPA 3050B	1,6010D	EFM
Silver, Total	ND		mg/kg	1.20	0.712	5	10/22/25 10:32	10/24/25 14:46	EPA 3050B	1,6010D	EFM
Sodium, Total	ND		mg/kg	478	253.	5	10/22/25 10:32	10/24/25 14:46	EPA 3050B	1,6010D	EFM
Thallium, Total	ND		mg/kg	4.78	2.16	5	10/22/25 10:32	10/24/25 14:46	EPA 3050B	1,6010D	EFM
Vanadium, Total	51.7		mg/kg	2.39	0.361	5	10/22/25 10:32	10/24/25 14:46	EPA 3050B	1,6010D	EFM
Zinc, Total	85.2		mg/kg	12.0	1.45	5	10/22/25 10:32	10/24/25 14:46	EPA 3050B	1,6010D	EFM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	41.4	J	mg/kg	2.39	2.03	1		10/24/25 15:18	NA	107,-	

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-11
Client ID: FROG-SS-110 (1.5-3.5)
Sample Location: CARLISLE, PA
Date Collected: 10/15/25 10:46
Date Received: 10/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3360		mg/kg	41.1	13.4	10	10/22/25 10:32	10/24/25 14:48	EPA 3050B	1,6010D	EFM
Antimony, Total	ND		mg/kg	20.5	15.8	10	10/22/25 10:32	10/24/25 14:48	EPA 3050B	1,6010D	EFM
Arsenic, Total	4.44		mg/kg	4.11	1.77	10	10/22/25 10:32	10/24/25 14:48	EPA 3050B	1,6010D	EFM
Barium, Total	124		mg/kg	4.11	0.436	10	10/22/25 10:32	10/24/25 14:48	EPA 3050B	1,6010D	EFM
Beryllium, Total	ND		mg/kg	2.05	0.226	10	10/22/25 10:32	10/24/25 14:48	EPA 3050B	1,6010D	EFM
Cadmium, Total	ND		mg/kg	4.11	0.226	10	10/22/25 10:32	10/24/25 14:48	EPA 3050B	1,6010D	EFM
Calcium, Total	4790		mg/kg	41.1	23.3	10	10/22/25 10:32	10/24/25 14:48	EPA 3050B	1,6010D	EFM
Chromium, Total	257		mg/kg	4.11	3.48	10	10/22/25 10:32	10/24/25 14:48	EPA 3050B	1,6010D	EFM
Cobalt, Total	65.7		mg/kg	8.22	1.02	10	10/22/25 10:32	10/24/25 14:48	EPA 3050B	1,6010D	EFM
Copper, Total	157		mg/kg	4.11	0.933	10	10/22/25 10:32	10/24/25 14:48	EPA 3050B	1,6010D	EFM
Iron, Total	57500		mg/kg	20.5	4.31	10	10/22/25 10:32	10/24/25 14:48	EPA 3050B	1,6010D	EFM
Lead, Total	170		mg/kg	20.5	0.978	10	10/22/25 10:32	10/24/25 14:48	EPA 3050B	1,6010D	EFM
Magnesium, Total	124000		mg/kg	41.1	6.70	10	10/22/25 10:32	10/24/25 14:48	EPA 3050B	1,6010D	EFM
Manganese, Total	9540		mg/kg	4.11	2.20	10	10/22/25 10:32	10/24/25 14:48	EPA 3050B	1,6010D	EFM
Mercury, Total	ND		mg/kg	0.083	0.054	1	10/22/25 11:41	10/24/25 00:12	EPA 7471B	1,7471B	RDB
Nickel, Total	1210		mg/kg	10.3	3.32	10	10/22/25 10:32	10/24/25 14:48	EPA 3050B	1,6010D	EFM
Potassium, Total	ND		mg/kg	1030	208.	10	10/22/25 10:32	10/24/25 14:48	EPA 3050B	1,6010D	EFM
Selenium, Total	ND		mg/kg	8.22	1.35	10	10/22/25 10:32	10/24/25 14:48	EPA 3050B	1,6010D	EFM
Silver, Total	ND		mg/kg	2.05	1.22	10	10/22/25 10:32	10/24/25 14:48	EPA 3050B	1,6010D	EFM
Sodium, Total	ND		mg/kg	822	436.	10	10/22/25 10:32	10/24/25 14:48	EPA 3050B	1,6010D	EFM
Thallium, Total	ND		mg/kg	8.22	3.70	10	10/22/25 10:32	10/24/25 14:48	EPA 3050B	1,6010D	EFM
Vanadium, Total	8.21		mg/kg	4.11	0.620	10	10/22/25 10:32	10/24/25 14:48	EPA 3050B	1,6010D	EFM
Zinc, Total	84.6		mg/kg	20.5	2.49	10	10/22/25 10:32	10/24/25 14:48	EPA 3050B	1,6010D	EFM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	257		mg/kg	4.11	3.48	1		10/24/25 15:37	NA	107,-	

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-12
Client ID: FROG-SS-110 (5-7)
Sample Location: CARLISLE, PA
Date Collected: 10/15/25 10:52
Date Received: 10/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2750		mg/kg	40.6	13.2	10	10/22/25 10:32	10/24/25 14:50	EPA 3050B	1,6010D	EFM
Antimony, Total	ND		mg/kg	20.3	15.6	10	10/22/25 10:32	10/24/25 14:50	EPA 3050B	1,6010D	EFM
Arsenic, Total	5.93		mg/kg	4.06	1.75	10	10/22/25 10:32	10/24/25 14:50	EPA 3050B	1,6010D	EFM
Barium, Total	85.6		mg/kg	4.06	0.430	10	10/22/25 10:32	10/24/25 14:50	EPA 3050B	1,6010D	EFM
Beryllium, Total	ND		mg/kg	2.03	0.223	10	10/22/25 10:32	10/24/25 14:50	EPA 3050B	1,6010D	EFM
Cadmium, Total	ND		mg/kg	4.06	0.223	10	10/22/25 10:32	10/24/25 14:50	EPA 3050B	1,6010D	EFM
Calcium, Total	4270		mg/kg	40.6	23.0	10	10/22/25 10:32	10/24/25 14:50	EPA 3050B	1,6010D	EFM
Chromium, Total	257		mg/kg	4.06	3.44	10	10/22/25 10:32	10/24/25 14:50	EPA 3050B	1,6010D	EFM
Cobalt, Total	60.5		mg/kg	8.12	1.01	10	10/22/25 10:32	10/24/25 14:50	EPA 3050B	1,6010D	EFM
Copper, Total	147		mg/kg	4.06	0.921	10	10/22/25 10:32	10/24/25 14:50	EPA 3050B	1,6010D	EFM
Iron, Total	52200		mg/kg	20.3	4.26	10	10/22/25 10:32	10/24/25 14:50	EPA 3050B	1,6010D	EFM
Lead, Total	165		mg/kg	20.3	0.966	10	10/22/25 10:32	10/24/25 14:50	EPA 3050B	1,6010D	EFM
Magnesium, Total	114000		mg/kg	40.6	6.61	10	10/22/25 10:32	10/24/25 14:50	EPA 3050B	1,6010D	EFM
Manganese, Total	8700		mg/kg	4.06	2.17	10	10/22/25 10:32	10/24/25 14:50	EPA 3050B	1,6010D	EFM
Mercury, Total	ND		mg/kg	0.084	0.055	1	10/22/25 11:41	10/24/25 00:15	EPA 7471B	1,7471B	RDB
Nickel, Total	1100		mg/kg	10.1	3.28	10	10/22/25 10:32	10/24/25 14:50	EPA 3050B	1,6010D	EFM
Potassium, Total	246	J	mg/kg	1010	206.	10	10/22/25 10:32	10/24/25 14:50	EPA 3050B	1,6010D	EFM
Selenium, Total	ND		mg/kg	8.12	1.33	10	10/22/25 10:32	10/24/25 14:50	EPA 3050B	1,6010D	EFM
Silver, Total	ND		mg/kg	2.03	1.21	10	10/22/25 10:32	10/24/25 14:50	EPA 3050B	1,6010D	EFM
Sodium, Total	ND		mg/kg	812	430.	10	10/22/25 10:32	10/24/25 14:50	EPA 3050B	1,6010D	EFM
Thallium, Total	ND		mg/kg	8.12	3.66	10	10/22/25 10:32	10/24/25 14:50	EPA 3050B	1,6010D	EFM
Vanadium, Total	7.56		mg/kg	4.06	0.613	10	10/22/25 10:32	10/24/25 14:50	EPA 3050B	1,6010D	EFM
Zinc, Total	85.2		mg/kg	20.3	2.46	10	10/22/25 10:32	10/24/25 14:50	EPA 3050B	1,6010D	EFM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	254		mg/kg	4.06	3.44	1		10/24/25 15:37	NA	107,-	

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-13
Client ID: FROG-SS-DUP-101
Sample Location: CARLISLE, PA
Date Collected: 10/15/25 00:00
Date Received: 10/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	23900		mg/kg	49.2	16.0	10	10/22/25 10:32	10/24/25 15:11	EPA 3050B	1,6010D	EFM
Antimony, Total	ND		mg/kg	24.6	18.9	10	10/22/25 10:32	10/24/25 15:11	EPA 3050B	1,6010D	EFM
Arsenic, Total	17.4		mg/kg	4.92	2.13	10	10/22/25 10:32	10/24/25 15:11	EPA 3050B	1,6010D	EFM
Barium, Total	75.4		mg/kg	4.92	0.522	10	10/22/25 10:32	10/24/25 15:11	EPA 3050B	1,6010D	EFM
Beryllium, Total	2.28	J	mg/kg	2.46	0.271	10	10/22/25 10:32	10/24/25 15:11	EPA 3050B	1,6010D	EFM
Cadmium, Total	ND		mg/kg	4.92	0.271	10	10/22/25 10:32	10/24/25 15:11	EPA 3050B	1,6010D	EFM
Calcium, Total	4120		mg/kg	49.2	27.9	10	10/22/25 10:32	10/24/25 15:11	EPA 3050B	1,6010D	EFM
Chromium, Total	44.9		mg/kg	4.92	4.17	10	10/22/25 10:32	10/24/25 15:11	EPA 3050B	1,6010D	EFM
Cobalt, Total	20.0		mg/kg	9.84	1.22	10	10/22/25 10:32	10/24/25 15:11	EPA 3050B	1,6010D	EFM
Copper, Total	28.7		mg/kg	4.92	1.12	10	10/22/25 10:32	10/24/25 15:11	EPA 3050B	1,6010D	EFM
Iron, Total	60500		mg/kg	24.6	5.17	10	10/22/25 10:32	10/24/25 15:11	EPA 3050B	1,6010D	EFM
Lead, Total	31.8		mg/kg	24.6	1.17	10	10/22/25 10:32	10/24/25 15:11	EPA 3050B	1,6010D	EFM
Magnesium, Total	2000		mg/kg	49.2	8.02	10	10/22/25 10:32	10/24/25 15:11	EPA 3050B	1,6010D	EFM
Manganese, Total	1020		mg/kg	4.92	2.64	10	10/22/25 10:32	10/24/25 15:11	EPA 3050B	1,6010D	EFM
Mercury, Total	0.093	J	mg/kg	0.096	0.063	1	10/22/25 11:41	10/24/25 00:18	EPA 7471B	1,7471B	RDB
Nickel, Total	44.2		mg/kg	12.3	3.98	10	10/22/25 10:32	10/24/25 15:11	EPA 3050B	1,6010D	EFM
Potassium, Total	1070	J	mg/kg	1230	250.	10	10/22/25 10:32	10/24/25 15:11	EPA 3050B	1,6010D	EFM
Selenium, Total	ND		mg/kg	9.84	1.62	10	10/22/25 10:32	10/24/25 15:11	EPA 3050B	1,6010D	EFM
Silver, Total	ND		mg/kg	2.46	1.47	10	10/22/25 10:32	10/24/25 15:11	EPA 3050B	1,6010D	EFM
Sodium, Total	ND		mg/kg	984	522.	10	10/22/25 10:32	10/24/25 15:11	EPA 3050B	1,6010D	EFM
Thallium, Total	ND		mg/kg	9.84	4.44	10	10/22/25 10:32	10/24/25 15:11	EPA 3050B	1,6010D	EFM
Vanadium, Total	62.4		mg/kg	4.92	0.743	10	10/22/25 10:32	10/24/25 15:11	EPA 3050B	1,6010D	EFM
Zinc, Total	61.7		mg/kg	24.6	2.98	10	10/22/25 10:32	10/24/25 15:11	EPA 3050B	1,6010D	EFM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	44.5	J	mg/kg	4.92	4.17	1		10/24/25 15:37	NA	107,-	

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-14
Client ID: FROG-SS-FB-101
Sample Location: CARLISLE, PA
Date Collected: 10/15/25 15:30
Date Received: 10/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.100	0.0318	1	10/21/25 09:05	10/24/25 19:11	EPA 3005A	1,6010D	MJR
Antimony, Total	ND		mg/l	0.0500	0.0071	1	10/21/25 09:05	10/24/25 19:11	EPA 3005A	1,6010D	MJR
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	10/21/25 09:05	10/24/25 19:11	EPA 3005A	1,6010D	MJR
Barium, Total	ND		mg/l	0.0100	0.0021	1	10/21/25 09:05	10/24/25 19:11	EPA 3005A	1,6010D	MJR
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	10/21/25 09:05	10/24/25 19:11	EPA 3005A	1,6010D	MJR
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	10/21/25 09:05	10/24/25 19:11	EPA 3005A	1,6010D	MJR
Calcium, Total	ND		mg/l	0.100	0.0350	1	10/21/25 09:05	10/24/25 19:11	EPA 3005A	1,6010D	MJR
Chromium, Total	ND		mg/l	0.0100	0.0021	1	10/21/25 09:05	10/24/25 19:11	EPA 3005A	1,6010D	MJR
Cobalt, Total	ND		mg/l	0.0200	0.0017	1	10/21/25 09:05	10/24/25 19:11	EPA 3005A	1,6010D	MJR
Copper, Total	ND		mg/l	0.0100	0.0022	1	10/21/25 09:05	10/24/25 19:11	EPA 3005A	1,6010D	MJR
Iron, Total	ND		mg/l	0.0500	0.0090	1	10/21/25 09:05	10/24/25 19:11	EPA 3005A	1,6010D	MJR
Lead, Total	ND		mg/l	0.0100	0.0027	1	10/21/25 09:05	10/24/25 19:11	EPA 3005A	1,6010D	MJR
Magnesium, Total	ND		mg/l	0.100	0.0153	1	10/21/25 09:05	10/24/25 19:11	EPA 3005A	1,6010D	MJR
Manganese, Total	ND		mg/l	0.0100	0.0016	1	10/21/25 09:05	10/24/25 19:11	EPA 3005A	1,6010D	MJR
Mercury, Total	ND		mg/l	0.00020	0.00009	1	10/21/25 11:35	10/23/25 19:02	EPA 7470A	1,7470A	RDB
Nickel, Total	ND		mg/l	0.0250	0.0024	1	10/21/25 09:05	10/24/25 19:11	EPA 3005A	1,6010D	MJR
Potassium, Total	ND		mg/l	2.50	0.237	1	10/21/25 09:05	10/24/25 19:11	EPA 3005A	1,6010D	MJR
Selenium, Total	ND		mg/l	0.0100	0.0035	1	10/21/25 09:05	10/24/25 19:11	EPA 3005A	1,6010D	MJR
Silver, Total	ND		mg/l	0.0070	0.0028	1	10/21/25 09:05	10/24/25 19:11	EPA 3005A	1,6010D	MJR
Sodium, Total	ND		mg/l	2.00	0.120	1	10/21/25 09:05	10/24/25 19:11	EPA 3005A	1,6010D	MJR
Thallium, Total	ND		mg/l	0.0200	0.0025	1	10/21/25 09:05	10/24/25 19:11	EPA 3005A	1,6010D	MJR
Vanadium, Total	ND		mg/l	0.0100	0.0020	1	10/21/25 09:05	10/24/25 19:11	EPA 3005A	1,6010D	MJR
Zinc, Total	ND		mg/l	0.0500	0.0021	1	10/21/25 09:05	10/24/25 19:11	EPA 3005A	1,6010D	MJR
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		10/24/25 19:11	NA	107,-	

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-15
Client ID: FROG-SS-118 (0-2)
Sample Location: CARLISLE, PA
Date Collected: 10/16/25 14:20
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	12000		mg/kg	47.9	15.6	10	10/22/25 10:32	10/30/25 00:05	EPA 3050B	1,6010D	MFR
Antimony, Total	ND		mg/kg	23.9	18.4	10	10/22/25 10:32	10/30/25 00:05	EPA 3050B	1,6010D	MFR
Arsenic, Total	18.9		mg/kg	4.79	2.07	10	10/22/25 10:32	10/30/25 00:05	EPA 3050B	1,6010D	MFR
Barium, Total	439		mg/kg	4.79	0.507	10	10/22/25 10:32	10/30/25 00:05	EPA 3050B	1,6010D	MFR
Beryllium, Total	1.98	J	mg/kg	2.39	0.263	10	10/22/25 10:32	10/30/25 00:05	EPA 3050B	1,6010D	MFR
Cadmium, Total	0.757	J	mg/kg	4.79	0.263	10	10/22/25 10:32	10/30/25 00:05	EPA 3050B	1,6010D	MFR
Calcium, Total	23400		mg/kg	47.9	27.1	10	10/22/25 10:32	10/30/25 00:05	EPA 3050B	1,6010D	MFR
Chromium, Total	162		mg/kg	4.79	4.06	10	10/22/25 10:32	10/30/25 00:05	EPA 3050B	1,6010D	MFR
Cobalt, Total	66.0		mg/kg	9.57	1.19	10	10/22/25 10:32	10/30/25 00:05	EPA 3050B	1,6010D	MFR
Copper, Total	69.5		mg/kg	4.79	1.09	10	10/22/25 10:32	10/30/25 00:05	EPA 3050B	1,6010D	MFR
Iron, Total	98200		mg/kg	23.9	5.02	10	10/22/25 10:32	10/30/25 00:05	EPA 3050B	1,6010D	MFR
Lead, Total	73.1		mg/kg	23.9	1.14	10	10/22/25 10:32	10/30/25 00:05	EPA 3050B	1,6010D	MFR
Magnesium, Total	27800		mg/kg	47.9	7.80	10	10/22/25 10:32	10/30/25 00:05	EPA 3050B	1,6010D	MFR
Manganese, Total	7580		mg/kg	4.79	2.56	10	10/22/25 10:32	10/30/25 00:05	EPA 3050B	1,6010D	MFR
Mercury, Total	0.840		mg/kg	0.097	0.064	1	10/22/25 11:41	10/24/25 00:21	EPA 7471B	1,7471B	RDB
Nickel, Total	251		mg/kg	12.0	3.87	10	10/22/25 10:32	10/30/25 00:05	EPA 3050B	1,6010D	MFR
Potassium, Total	545	J	mg/kg	1200	243.	10	10/22/25 10:32	10/30/25 00:05	EPA 3050B	1,6010D	MFR
Selenium, Total	ND		mg/kg	9.57	1.57	10	10/22/25 10:32	10/30/25 00:05	EPA 3050B	1,6010D	MFR
Silver, Total	ND		mg/kg	2.39	1.43	10	10/22/25 10:32	10/30/25 00:05	EPA 3050B	1,6010D	MFR
Sodium, Total	ND		mg/kg	957	507.	10	10/22/25 10:32	10/30/25 00:05	EPA 3050B	1,6010D	MFR
Thallium, Total	ND		mg/kg	9.57	4.32	10	10/22/25 10:32	10/30/25 00:05	EPA 3050B	1,6010D	MFR
Vanadium, Total	57.4		mg/kg	4.79	0.723	10	10/22/25 10:32	10/30/25 00:05	EPA 3050B	1,6010D	MFR
Zinc, Total	148		mg/kg	23.9	2.90	10	10/22/25 10:32	10/30/25 00:05	EPA 3050B	1,6010D	MFR
General Chemistry - Mansfield Lab											
Chromium, Trivalent	162		mg/kg	4.79	4.06	1		10/30/25 00:05	NA	107,-	

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-16
Client ID: FROG-SS-118 (10-12)
Sample Location: CARLISLE, PA
Date Collected: 10/16/25 14:23
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	15700		mg/kg	48.7	15.8	10	10/22/25 10:32	10/30/25 00:09	EPA 3050B	1,6010D	MFR
Antimony, Total	ND		mg/kg	24.3	18.7	10	10/22/25 10:32	10/30/25 00:09	EPA 3050B	1,6010D	MFR
Arsenic, Total	12.7		mg/kg	4.87	2.10	10	10/22/25 10:32	10/30/25 00:09	EPA 3050B	1,6010D	MFR
Barium, Total	102		mg/kg	4.87	0.516	10	10/22/25 10:32	10/30/25 00:09	EPA 3050B	1,6010D	MFR
Beryllium, Total	4.21		mg/kg	2.43	0.268	10	10/22/25 10:32	10/30/25 00:09	EPA 3050B	1,6010D	MFR
Cadmium, Total	0.369	J	mg/kg	4.87	0.268	10	10/22/25 10:32	10/30/25 00:09	EPA 3050B	1,6010D	MFR
Calcium, Total	10300		mg/kg	48.7	27.6	10	10/22/25 10:32	10/30/25 00:09	EPA 3050B	1,6010D	MFR
Chromium, Total	41.6		mg/kg	4.87	4.13	10	10/22/25 10:32	10/30/25 00:09	EPA 3050B	1,6010D	MFR
Cobalt, Total	32.9		mg/kg	9.74	1.21	10	10/22/25 10:32	10/30/25 00:09	EPA 3050B	1,6010D	MFR
Copper, Total	31.4		mg/kg	4.87	1.10	10	10/22/25 10:32	10/30/25 00:09	EPA 3050B	1,6010D	MFR
Iron, Total	83900		mg/kg	24.3	5.11	10	10/22/25 10:32	10/30/25 00:09	EPA 3050B	1,6010D	MFR
Lead, Total	24.3		mg/kg	24.3	1.16	10	10/22/25 10:32	10/30/25 00:09	EPA 3050B	1,6010D	MFR
Magnesium, Total	2070		mg/kg	48.7	7.94	10	10/22/25 10:32	10/30/25 00:09	EPA 3050B	1,6010D	MFR
Manganese, Total	924		mg/kg	4.87	2.61	10	10/22/25 10:32	10/30/25 00:09	EPA 3050B	1,6010D	MFR
Mercury, Total	0.104		mg/kg	0.091	0.059	1	10/22/25 11:41	10/24/25 00:30	EPA 7471B	1,7471B	RDB
Nickel, Total	41.5		mg/kg	12.2	3.93	10	10/22/25 10:32	10/30/25 00:09	EPA 3050B	1,6010D	MFR
Potassium, Total	825	J	mg/kg	1220	247.	10	10/22/25 10:32	10/30/25 00:09	EPA 3050B	1,6010D	MFR
Selenium, Total	ND		mg/kg	9.74	1.60	10	10/22/25 10:32	10/30/25 00:09	EPA 3050B	1,6010D	MFR
Silver, Total	ND		mg/kg	2.43	1.45	10	10/22/25 10:32	10/30/25 00:09	EPA 3050B	1,6010D	MFR
Sodium, Total	ND		mg/kg	974	516.	10	10/22/25 10:32	10/30/25 00:09	EPA 3050B	1,6010D	MFR
Thallium, Total	ND		mg/kg	9.74	4.39	10	10/22/25 10:32	10/30/25 00:09	EPA 3050B	1,6010D	MFR
Vanadium, Total	82.4		mg/kg	4.87	0.735	10	10/22/25 10:32	10/30/25 00:09	EPA 3050B	1,6010D	MFR
Zinc, Total	63.2		mg/kg	24.3	2.95	10	10/22/25 10:32	10/30/25 00:09	EPA 3050B	1,6010D	MFR
General Chemistry - Mansfield Lab											
Chromium, Trivalent	41.6		mg/kg	4.87	4.13	1		10/30/25 00:09	NA	107,-	

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-17
Client ID: FROG-SS-119 (0.5-1)
Sample Location: CARLISLE, PA
Date Collected: 10/16/25 13:45
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6930		mg/kg	43.2	14.0	10	10/22/25 10:32	10/30/25 00:12	EPA 3050B	1,6010D	MFR
Antimony, Total	ND		mg/kg	21.6	16.6	10	10/22/25 10:32	10/30/25 00:12	EPA 3050B	1,6010D	MFR
Arsenic, Total	15.4		mg/kg	4.32	1.87	10	10/22/25 10:32	10/30/25 00:12	EPA 3050B	1,6010D	MFR
Barium, Total	251		mg/kg	4.32	0.458	10	10/22/25 10:32	10/30/25 00:12	EPA 3050B	1,6010D	MFR
Beryllium, Total	0.301	J	mg/kg	2.16	0.238	10	10/22/25 10:32	10/30/25 00:12	EPA 3050B	1,6010D	MFR
Cadmium, Total	0.700	J	mg/kg	4.32	0.238	10	10/22/25 10:32	10/30/25 00:12	EPA 3050B	1,6010D	MFR
Calcium, Total	129000		mg/kg	43.2	24.5	10	10/22/25 10:32	10/30/25 00:12	EPA 3050B	1,6010D	MFR
Chromium, Total	222		mg/kg	4.32	3.66	10	10/22/25 10:32	10/30/25 00:12	EPA 3050B	1,6010D	MFR
Cobalt, Total	15.1		mg/kg	8.64	1.07	10	10/22/25 10:32	10/30/25 00:12	EPA 3050B	1,6010D	MFR
Copper, Total	127		mg/kg	4.32	0.981	10	10/22/25 10:32	10/30/25 00:12	EPA 3050B	1,6010D	MFR
Iron, Total	50500		mg/kg	21.6	4.54	10	10/22/25 10:32	10/30/25 00:12	EPA 3050B	1,6010D	MFR
Lead, Total	130		mg/kg	21.6	1.03	10	10/22/25 10:32	10/30/25 00:12	EPA 3050B	1,6010D	MFR
Magnesium, Total	30700		mg/kg	43.2	7.04	10	10/22/25 10:32	10/30/25 00:12	EPA 3050B	1,6010D	MFR
Manganese, Total	36900		mg/kg	43.2	23.2	100	10/22/25 10:32	10/30/25 09:45	EPA 3050B	1,6010D	MFR
Mercury, Total	0.10		mg/kg	0.073	0.048	1	10/22/25 11:41	10/24/25 00:33	EPA 7471B	1,7471B	RDB
Nickel, Total	171		mg/kg	10.8	3.49	10	10/22/25 10:32	10/30/25 00:12	EPA 3050B	1,6010D	MFR
Potassium, Total	534	J	mg/kg	1080	219.	10	10/22/25 10:32	10/30/25 00:12	EPA 3050B	1,6010D	MFR
Selenium, Total	ND		mg/kg	8.64	1.42	10	10/22/25 10:32	10/30/25 00:12	EPA 3050B	1,6010D	MFR
Silver, Total	ND		mg/kg	2.16	1.29	10	10/22/25 10:32	10/30/25 00:12	EPA 3050B	1,6010D	MFR
Sodium, Total	ND		mg/kg	864	458.	10	10/22/25 10:32	10/30/25 00:12	EPA 3050B	1,6010D	MFR
Thallium, Total	ND		mg/kg	8.64	3.90	10	10/22/25 10:32	10/30/25 00:12	EPA 3050B	1,6010D	MFR
Vanadium, Total	15.6		mg/kg	4.32	0.652	10	10/22/25 10:32	10/30/25 00:12	EPA 3050B	1,6010D	MFR
Zinc, Total	205		mg/kg	21.6	2.62	10	10/22/25 10:32	10/30/25 00:12	EPA 3050B	1,6010D	MFR

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-18
Client ID: FROG-SS-111 (0-2)
Sample Location: CARLISLE, PA
Date Collected: 10/16/25 10:28
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	14600		mg/kg	8.84	2.87	2	10/22/25 10:32	10/29/25 23:45	EPA 3050B	1,6010D	MFR
Antimony, Total	ND		mg/kg	4.42	3.40	2	10/22/25 10:32	10/29/25 23:45	EPA 3050B	1,6010D	MFR
Arsenic, Total	6.64		mg/kg	0.884	0.382	2	10/22/25 10:32	10/29/25 23:45	EPA 3050B	1,6010D	MFR
Barium, Total	97.1		mg/kg	0.884	0.094	2	10/22/25 10:32	10/29/25 23:45	EPA 3050B	1,6010D	MFR
Beryllium, Total	0.890		mg/kg	0.442	0.049	2	10/22/25 10:32	10/29/25 23:45	EPA 3050B	1,6010D	MFR
Cadmium, Total	ND		mg/kg	0.884	0.049	2	10/22/25 10:32	10/29/25 23:45	EPA 3050B	1,6010D	MFR
Calcium, Total	4980		mg/kg	8.84	5.01	2	10/22/25 10:32	10/29/25 23:45	EPA 3050B	1,6010D	MFR
Chromium, Total	23.7		mg/kg	0.884	0.750	2	10/22/25 10:32	10/29/25 23:45	EPA 3050B	1,6010D	MFR
Cobalt, Total	16.9		mg/kg	1.77	0.219	2	10/22/25 10:32	10/29/25 23:45	EPA 3050B	1,6010D	MFR
Copper, Total	45.5		mg/kg	0.884	0.201	2	10/22/25 10:32	10/29/25 23:45	EPA 3050B	1,6010D	MFR
Iron, Total	38200		mg/kg	22.1	4.64	10	10/22/25 10:32	10/30/25 00:15	EPA 3050B	1,6010D	MFR
Lead, Total	17.4		mg/kg	4.42	0.210	2	10/22/25 10:32	10/29/25 23:45	EPA 3050B	1,6010D	MFR
Magnesium, Total	6700		mg/kg	8.84	1.44	2	10/22/25 10:32	10/29/25 23:45	EPA 3050B	1,6010D	MFR
Manganese, Total	643		mg/kg	0.884	0.474	2	10/22/25 10:32	10/29/25 23:45	EPA 3050B	1,6010D	MFR
Mercury, Total	ND		mg/kg	0.085	0.056	1	10/22/25 11:41	10/24/25 00:36	EPA 7471B	1,7471B	RDB
Nickel, Total	30.2		mg/kg	2.21	0.714	2	10/22/25 10:32	10/29/25 23:45	EPA 3050B	1,6010D	MFR
Potassium, Total	605		mg/kg	221	44.8	2	10/22/25 10:32	10/29/25 23:45	EPA 3050B	1,6010D	MFR
Selenium, Total	ND		mg/kg	1.77	0.291	2	10/22/25 10:32	10/29/25 23:45	EPA 3050B	1,6010D	MFR
Silver, Total	ND		mg/kg	0.442	0.264	2	10/22/25 10:32	10/29/25 23:45	EPA 3050B	1,6010D	MFR
Sodium, Total	ND		mg/kg	177	93.7	2	10/22/25 10:32	10/29/25 23:45	EPA 3050B	1,6010D	MFR
Thallium, Total	ND		mg/kg	1.77	0.798	2	10/22/25 10:32	10/29/25 23:45	EPA 3050B	1,6010D	MFR
Vanadium, Total	27.0		mg/kg	0.884	0.134	2	10/22/25 10:32	10/29/25 23:45	EPA 3050B	1,6010D	MFR
Zinc, Total	71.7		mg/kg	4.42	0.536	2	10/22/25 10:32	10/29/25 23:45	EPA 3050B	1,6010D	MFR
General Chemistry - Mansfield Lab											
Chromium, Trivalent	23.7		mg/kg	0.907	0.750	1		10/29/25 23:45	NA	107,-	

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-19
Client ID: FROG-SS-111 (11-13)
Sample Location: CARLISLE, PA
Date Collected: 10/16/25 10:30
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	12300		mg/kg	9.91	3.22	2	10/22/25 10:32	10/29/25 23:48	EPA 3050B	1,6010D	MFR
Antimony, Total	ND		mg/kg	4.95	3.81	2	10/22/25 10:32	10/29/25 23:48	EPA 3050B	1,6010D	MFR
Arsenic, Total	5.64		mg/kg	0.991	0.428	2	10/22/25 10:32	10/29/25 23:48	EPA 3050B	1,6010D	MFR
Barium, Total	70.5		mg/kg	0.991	0.105	2	10/22/25 10:32	10/29/25 23:48	EPA 3050B	1,6010D	MFR
Beryllium, Total	1.33		mg/kg	0.495	0.055	2	10/22/25 10:32	10/29/25 23:48	EPA 3050B	1,6010D	MFR
Cadmium, Total	0.185	J	mg/kg	0.991	0.055	2	10/22/25 10:32	10/29/25 23:48	EPA 3050B	1,6010D	MFR
Calcium, Total	8080		mg/kg	9.91	5.62	2	10/22/25 10:32	10/29/25 23:48	EPA 3050B	1,6010D	MFR
Chromium, Total	28.3		mg/kg	0.991	0.840	2	10/22/25 10:32	10/29/25 23:48	EPA 3050B	1,6010D	MFR
Cobalt, Total	16.4		mg/kg	1.98	0.246	2	10/22/25 10:32	10/29/25 23:48	EPA 3050B	1,6010D	MFR
Copper, Total	17.6		mg/kg	0.991	0.225	2	10/22/25 10:32	10/29/25 23:48	EPA 3050B	1,6010D	MFR
Iron, Total	35600		mg/kg	24.8	5.20	10	10/22/25 10:32	10/30/25 00:19	EPA 3050B	1,6010D	MFR
Lead, Total	22.6		mg/kg	4.95	0.236	2	10/22/25 10:32	10/29/25 23:48	EPA 3050B	1,6010D	MFR
Magnesium, Total	4300		mg/kg	9.91	1.62	2	10/22/25 10:32	10/29/25 23:48	EPA 3050B	1,6010D	MFR
Manganese, Total	218		mg/kg	0.991	0.531	2	10/22/25 10:32	10/29/25 23:48	EPA 3050B	1,6010D	MFR
Mercury, Total	0.082	J	mg/kg	0.093	0.061	1	10/22/25 11:41	10/24/25 00:39	EPA 7471B	1,7471B	RDB
Nickel, Total	16.4		mg/kg	2.48	0.800	2	10/22/25 10:32	10/29/25 23:48	EPA 3050B	1,6010D	MFR
Potassium, Total	577		mg/kg	248	50.2	2	10/22/25 10:32	10/29/25 23:48	EPA 3050B	1,6010D	MFR
Selenium, Total	ND		mg/kg	1.98	0.326	2	10/22/25 10:32	10/29/25 23:48	EPA 3050B	1,6010D	MFR
Silver, Total	ND		mg/kg	0.495	0.295	2	10/22/25 10:32	10/29/25 23:48	EPA 3050B	1,6010D	MFR
Sodium, Total	ND		mg/kg	198	105.	2	10/22/25 10:32	10/29/25 23:48	EPA 3050B	1,6010D	MFR
Thallium, Total	ND		mg/kg	1.98	0.894	2	10/22/25 10:32	10/29/25 23:48	EPA 3050B	1,6010D	MFR
Vanadium, Total	34.9		mg/kg	0.991	0.150	2	10/22/25 10:32	10/29/25 23:48	EPA 3050B	1,6010D	MFR
Zinc, Total	94.4		mg/kg	4.95	0.600	2	10/22/25 10:32	10/29/25 23:48	EPA 3050B	1,6010D	MFR
General Chemistry - Mansfield Lab											
Chromium, Trivalent	28.3		mg/kg	0.999	0.840	1		10/29/25 23:48	NA	107,-	

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-20
Client ID: FROG-SS-112 (0-2)
Sample Location: CARLISLE, PA
Date Collected: 10/16/25 11:20
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2580		mg/kg	16.6	5.39	4	10/22/25 22:09	10/29/25 16:07	EPA 3050B	1,6010D	MRP
Antimony, Total	ND		mg/kg	8.30	6.39	4	10/22/25 22:09	10/29/25 16:07	EPA 3050B	1,6010D	MRP
Arsenic, Total	2.77		mg/kg	1.66	0.717	4	10/22/25 22:09	10/29/25 16:07	EPA 3050B	1,6010D	MRP
Barium, Total	49.2		mg/kg	1.66	0.176	4	10/22/25 22:09	10/29/25 16:07	EPA 3050B	1,6010D	MRP
Beryllium, Total	0.110	J	mg/kg	0.830	0.091	4	10/22/25 22:09	10/29/25 16:07	EPA 3050B	1,6010D	MRP
Cadmium, Total	0.117	J	mg/kg	1.66	0.091	4	10/22/25 22:09	10/29/25 16:07	EPA 3050B	1,6010D	MRP
Calcium, Total	5550		mg/kg	16.6	9.41	4	10/22/25 22:09	10/29/25 16:07	EPA 3050B	1,6010D	MRP
Chromium, Total	213		mg/kg	1.66	1.41	4	10/22/25 22:09	10/29/25 16:07	EPA 3050B	1,6010D	MRP
Cobalt, Total	52.6		mg/kg	3.32	0.412	4	10/22/25 22:09	10/29/25 16:07	EPA 3050B	1,6010D	MRP
Copper, Total	35.2		mg/kg	1.66	0.377	4	10/22/25 22:09	10/29/25 16:07	EPA 3050B	1,6010D	MRP
Iron, Total	31000		mg/kg	8.30	1.74	4	10/22/25 22:09	10/29/25 16:07	EPA 3050B	1,6010D	MRP
Lead, Total	16.0		mg/kg	8.30	0.395	4	10/22/25 22:09	10/29/25 16:07	EPA 3050B	1,6010D	MRP
Magnesium, Total	97800		mg/kg	16.6	2.70	4	10/22/25 22:09	10/29/25 16:07	EPA 3050B	1,6010D	MRP
Manganese, Total	3670		mg/kg	1.66	0.890	4	10/22/25 22:09	10/29/25 16:07	EPA 3050B	1,6010D	MRP
Mercury, Total	0.050	J	mg/kg	0.073	0.048	1	10/22/25 22:17	10/25/25 13:19	EPA 7471B	1,7471B	CME
Nickel, Total	911		mg/kg	4.15	1.34	4	10/22/25 22:09	10/29/25 16:07	EPA 3050B	1,6010D	MRP
Potassium, Total	ND		mg/kg	415	84.1	4	10/22/25 22:09	10/29/25 16:07	EPA 3050B	1,6010D	MRP
Selenium, Total	ND		mg/kg	3.32	0.546	4	10/22/25 22:09	10/29/25 16:07	EPA 3050B	1,6010D	MRP
Silver, Total	ND		mg/kg	0.830	0.494	4	10/22/25 22:09	10/29/25 16:07	EPA 3050B	1,6010D	MRP
Sodium, Total	ND		mg/kg	332	176.	4	10/22/25 22:09	10/29/25 16:07	EPA 3050B	1,6010D	MRP
Thallium, Total	ND		mg/kg	3.32	1.50	4	10/22/25 22:09	10/29/25 16:07	EPA 3050B	1,6010D	MRP
Vanadium, Total	5.34		mg/kg	1.66	0.251	4	10/22/25 22:09	10/29/25 16:07	EPA 3050B	1,6010D	MRP
Zinc, Total	22.2		mg/kg	8.30	1.00	4	10/22/25 22:09	10/29/25 16:07	EPA 3050B	1,6010D	MRP
General Chemistry - Mansfield Lab											
Chromium, Trivalent	208		mg/kg	1.66	1.41	1		10/29/25 16:07	NA	107,-	

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-21
Client ID: FROG-SS-112 (7-9)
Sample Location: CARLISLE, PA
Date Collected: 10/16/25 11:22
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5770		mg/kg	8.42	2.74	2	10/22/25 22:09	10/29/25 14:28	EPA 3050B	1,6010D	MRP
Antimony, Total	ND		mg/kg	4.21	3.24	2	10/22/25 22:09	10/29/25 14:28	EPA 3050B	1,6010D	MRP
Arsenic, Total	9.35		mg/kg	0.842	0.364	2	10/22/25 22:09	10/29/25 14:28	EPA 3050B	1,6010D	MRP
Barium, Total	43.0		mg/kg	0.842	0.089	2	10/22/25 22:09	10/29/25 14:28	EPA 3050B	1,6010D	MRP
Beryllium, Total	0.946		mg/kg	0.421	0.046	2	10/22/25 22:09	10/29/25 14:28	EPA 3050B	1,6010D	MRP
Cadmium, Total	0.094	J	mg/kg	0.842	0.046	2	10/22/25 22:09	10/29/25 14:28	EPA 3050B	1,6010D	MRP
Calcium, Total	10100		mg/kg	8.42	4.77	2	10/22/25 22:09	10/29/25 14:28	EPA 3050B	1,6010D	MRP
Chromium, Total	90.1		mg/kg	0.842	0.714	2	10/22/25 22:09	10/29/25 14:28	EPA 3050B	1,6010D	MRP
Cobalt, Total	30.8		mg/kg	1.68	0.209	2	10/22/25 22:09	10/29/25 14:28	EPA 3050B	1,6010D	MRP
Copper, Total	31.9		mg/kg	0.842	0.191	2	10/22/25 22:09	10/29/25 14:28	EPA 3050B	1,6010D	MRP
Iron, Total	30400		mg/kg	4.21	0.884	2	10/22/25 22:09	10/29/25 14:28	EPA 3050B	1,6010D	MRP
Lead, Total	17.4		mg/kg	4.21	0.200	2	10/22/25 22:09	10/29/25 14:28	EPA 3050B	1,6010D	MRP
Magnesium, Total	46900		mg/kg	8.42	1.37	2	10/22/25 22:09	10/29/25 14:28	EPA 3050B	1,6010D	MRP
Manganese, Total	3240		mg/kg	0.842	0.451	2	10/22/25 22:09	10/29/25 14:28	EPA 3050B	1,6010D	MRP
Mercury, Total	0.061	J	mg/kg	0.068	0.044	1	10/22/25 22:17	10/25/25 13:28	EPA 7471B	1,7471B	CME
Nickel, Total	425		mg/kg	2.10	0.680	2	10/22/25 22:09	10/29/25 14:28	EPA 3050B	1,6010D	MRP
Potassium, Total	408		mg/kg	210	42.7	2	10/22/25 22:09	10/29/25 14:28	EPA 3050B	1,6010D	MRP
Selenium, Total	ND		mg/kg	1.68	0.277	2	10/22/25 22:09	10/29/25 14:28	EPA 3050B	1,6010D	MRP
Silver, Total	ND		mg/kg	0.421	0.251	2	10/22/25 22:09	10/29/25 14:28	EPA 3050B	1,6010D	MRP
Sodium, Total	272		mg/kg	168	89.2	2	10/22/25 22:09	10/29/25 14:28	EPA 3050B	1,6010D	MRP
Thallium, Total	ND		mg/kg	1.68	0.759	2	10/22/25 22:09	10/29/25 14:28	EPA 3050B	1,6010D	MRP
Vanadium, Total	26.7		mg/kg	0.842	0.127	2	10/22/25 22:09	10/29/25 14:28	EPA 3050B	1,6010D	MRP
Zinc, Total	39.3		mg/kg	4.21	0.510	2	10/22/25 22:09	10/29/25 14:28	EPA 3050B	1,6010D	MRP
General Chemistry - Mansfield Lab											
Chromium, Trivalent	89.9	J	mg/kg	0.866	0.714	1		10/29/25 14:28	NA	107,-	

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-22
Client ID: FROG-SS-120 (0-2)
Sample Location: CARLISLE, PA
Date Collected: 10/16/25 08:00
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3960		mg/kg	17.0	5.53	4	10/22/25 22:09	10/29/25 16:11	EPA 3050B	1,6010D	MRP
Antimony, Total	ND		mg/kg	8.50	6.55	4	10/22/25 22:09	10/29/25 16:11	EPA 3050B	1,6010D	MRP
Arsenic, Total	12.1		mg/kg	1.70	0.735	4	10/22/25 22:09	10/29/25 16:11	EPA 3050B	1,6010D	MRP
Barium, Total	102		mg/kg	1.70	0.180	4	10/22/25 22:09	10/29/25 16:11	EPA 3050B	1,6010D	MRP
Beryllium, Total	0.188	J	mg/kg	0.850	0.094	4	10/22/25 22:09	10/29/25 16:11	EPA 3050B	1,6010D	MRP
Cadmium, Total	0.332	J	mg/kg	1.70	0.094	4	10/22/25 22:09	10/29/25 16:11	EPA 3050B	1,6010D	MRP
Calcium, Total	3210		mg/kg	17.0	9.64	4	10/22/25 22:09	10/29/25 16:11	EPA 3050B	1,6010D	MRP
Chromium, Total	94.6		mg/kg	1.70	1.44	4	10/22/25 22:09	10/29/25 16:11	EPA 3050B	1,6010D	MRP
Cobalt, Total	13.7		mg/kg	3.40	0.422	4	10/22/25 22:09	10/29/25 16:11	EPA 3050B	1,6010D	MRP
Copper, Total	93.7		mg/kg	1.70	0.386	4	10/22/25 22:09	10/29/25 16:11	EPA 3050B	1,6010D	MRP
Iron, Total	47200		mg/kg	8.50	1.78	4	10/22/25 22:09	10/29/25 16:11	EPA 3050B	1,6010D	MRP
Lead, Total	46.1		mg/kg	8.50	0.405	4	10/22/25 22:09	10/29/25 16:11	EPA 3050B	1,6010D	MRP
Magnesium, Total	14400		mg/kg	17.0	2.77	4	10/22/25 22:09	10/29/25 16:11	EPA 3050B	1,6010D	MRP
Manganese, Total	13300		mg/kg	8.50	4.56	20	10/22/25 22:09	10/29/25 22:10	EPA 3050B	1,6010D	MJR
Mercury, Total	0.107		mg/kg	0.072	0.047	1	10/22/25 22:17	10/25/25 13:32	EPA 7471B	1,7471B	CME
Nickel, Total	141		mg/kg	4.25	1.37	4	10/22/25 22:09	10/29/25 16:11	EPA 3050B	1,6010D	MRP
Potassium, Total	268	J	mg/kg	425	86.2	4	10/22/25 22:09	10/29/25 16:11	EPA 3050B	1,6010D	MRP
Selenium, Total	ND		mg/kg	3.40	0.560	4	10/22/25 22:09	10/29/25 16:11	EPA 3050B	1,6010D	MRP
Silver, Total	ND		mg/kg	0.850	0.507	4	10/22/25 22:09	10/29/25 16:11	EPA 3050B	1,6010D	MRP
Sodium, Total	798		mg/kg	340	180.	4	10/22/25 22:09	10/29/25 16:11	EPA 3050B	1,6010D	MRP
Thallium, Total	ND		mg/kg	3.40	1.53	4	10/22/25 22:09	10/29/25 16:11	EPA 3050B	1,6010D	MRP
Vanadium, Total	14.3		mg/kg	1.70	0.257	4	10/22/25 22:09	10/29/25 16:11	EPA 3050B	1,6010D	MRP
Zinc, Total	72.0		mg/kg	8.50	1.03	4	10/22/25 22:09	10/29/25 16:11	EPA 3050B	1,6010D	MRP
General Chemistry - Mansfield Lab											
Chromium, Trivalent	94.6		mg/kg	1.70	1.44	1		10/29/25 16:11	NA	107,-	

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-23
Client ID: FROG-SS-120 (2-3.5)
Sample Location: CARLISLE, PA
Date Collected: 10/16/25 08:05
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5980		mg/kg	17.4	5.66	4	10/22/25 22:09	10/29/25 16:14	EPA 3050B	1,6010D	MRP
Antimony, Total	ND		mg/kg	8.70	6.70	4	10/22/25 22:09	10/29/25 16:14	EPA 3050B	1,6010D	MRP
Arsenic, Total	22.0		mg/kg	1.74	0.752	4	10/22/25 22:09	10/29/25 16:14	EPA 3050B	1,6010D	MRP
Barium, Total	101		mg/kg	1.74	0.184	4	10/22/25 22:09	10/29/25 16:14	EPA 3050B	1,6010D	MRP
Beryllium, Total	0.491	J	mg/kg	0.870	0.096	4	10/22/25 22:09	10/29/25 16:14	EPA 3050B	1,6010D	MRP
Cadmium, Total	1.12	J	mg/kg	1.74	0.096	4	10/22/25 22:09	10/29/25 16:14	EPA 3050B	1,6010D	MRP
Calcium, Total	9230		mg/kg	17.4	9.87	4	10/22/25 22:09	10/29/25 16:14	EPA 3050B	1,6010D	MRP
Chromium, Total	413		mg/kg	1.74	1.48	4	10/22/25 22:09	10/29/25 16:14	EPA 3050B	1,6010D	MRP
Cobalt, Total	28.6		mg/kg	3.48	0.432	4	10/22/25 22:09	10/29/25 16:14	EPA 3050B	1,6010D	MRP
Copper, Total	196		mg/kg	1.74	0.395	4	10/22/25 22:09	10/29/25 16:14	EPA 3050B	1,6010D	MRP
Iron, Total	62500		mg/kg	8.70	1.83	4	10/22/25 22:09	10/29/25 16:14	EPA 3050B	1,6010D	MRP
Lead, Total	58.4		mg/kg	8.70	0.414	4	10/22/25 22:09	10/29/25 16:14	EPA 3050B	1,6010D	MRP
Magnesium, Total	40600		mg/kg	17.4	2.84	4	10/22/25 22:09	10/29/25 16:14	EPA 3050B	1,6010D	MRP
Manganese, Total	10700		mg/kg	8.70	4.66	20	10/22/25 22:09	10/29/25 22:17	EPA 3050B	1,6010D	MJR
Mercury, Total	0.113		mg/kg	0.072	0.047	1	10/22/25 22:17	10/25/25 13:35	EPA 7471B	1,7471B	CME
Nickel, Total	368		mg/kg	4.35	1.41	4	10/22/25 22:09	10/29/25 16:14	EPA 3050B	1,6010D	MRP
Potassium, Total	362	J	mg/kg	435	88.3	4	10/22/25 22:09	10/29/25 16:14	EPA 3050B	1,6010D	MRP
Selenium, Total	ND		mg/kg	3.48	0.573	4	10/22/25 22:09	10/29/25 16:14	EPA 3050B	1,6010D	MRP
Silver, Total	ND		mg/kg	0.870	0.519	4	10/22/25 22:09	10/29/25 16:14	EPA 3050B	1,6010D	MRP
Sodium, Total	505		mg/kg	348	184.	4	10/22/25 22:09	10/29/25 16:14	EPA 3050B	1,6010D	MRP
Thallium, Total	ND		mg/kg	3.48	1.57	4	10/22/25 22:09	10/29/25 16:14	EPA 3050B	1,6010D	MRP
Vanadium, Total	25.0		mg/kg	1.74	0.263	4	10/22/25 22:09	10/29/25 16:14	EPA 3050B	1,6010D	MRP
Zinc, Total	192		mg/kg	8.70	1.06	4	10/22/25 22:09	10/29/25 16:14	EPA 3050B	1,6010D	MRP
General Chemistry - Mansfield Lab											
Chromium, Trivalent	411		mg/kg	1.74	1.48	1		10/29/25 16:14	NA	107,-	

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-24
Client ID: FROG-SS-121 (0-2)
Sample Location: CARLISLE, PA
Date Collected: 10/16/25 09:06
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5160		mg/kg	43.1	14.0	10	10/22/25 22:09	10/29/25 21:57	EPA 3050B	1,6010D	MJR
Antimony, Total	ND		mg/kg	21.6	16.6	10	10/22/25 22:09	10/29/25 21:57	EPA 3050B	1,6010D	MJR
Arsenic, Total	22.1		mg/kg	4.31	1.86	10	10/22/25 22:09	10/29/25 21:57	EPA 3050B	1,6010D	MJR
Barium, Total	120		mg/kg	4.31	0.457	10	10/22/25 22:09	10/29/25 21:57	EPA 3050B	1,6010D	MJR
Beryllium, Total	0.499	J	mg/kg	2.16	0.237	10	10/22/25 22:09	10/29/25 21:57	EPA 3050B	1,6010D	MJR
Cadmium, Total	ND		mg/kg	4.31	0.237	10	10/22/25 22:09	10/29/25 21:57	EPA 3050B	1,6010D	MJR
Calcium, Total	42700		mg/kg	43.1	24.4	10	10/22/25 22:09	10/29/25 21:57	EPA 3050B	1,6010D	MJR
Chromium, Total	60.9		mg/kg	4.31	3.66	10	10/22/25 22:09	10/29/25 21:57	EPA 3050B	1,6010D	MJR
Cobalt, Total	34.4		mg/kg	8.62	1.07	10	10/22/25 22:09	10/29/25 21:57	EPA 3050B	1,6010D	MJR
Copper, Total	276		mg/kg	4.31	0.979	10	10/22/25 22:09	10/29/25 21:57	EPA 3050B	1,6010D	MJR
Iron, Total	106000		mg/kg	21.6	4.53	10	10/22/25 22:09	10/29/25 21:57	EPA 3050B	1,6010D	MJR
Lead, Total	290		mg/kg	21.6	1.03	10	10/22/25 22:09	10/29/25 21:57	EPA 3050B	1,6010D	MJR
Magnesium, Total	8240		mg/kg	43.1	7.03	10	10/22/25 22:09	10/29/25 21:57	EPA 3050B	1,6010D	MJR
Manganese, Total	8880		mg/kg	8.62	4.62	20	10/22/25 22:09	10/29/25 22:42	EPA 3050B	1,6010D	MJR
Mercury, Total	0.149		mg/kg	0.073	0.048	1	10/22/25 22:17	10/25/25 13:38	EPA 7471B	1,7471B	CME
Nickel, Total	114		mg/kg	10.8	3.48	10	10/22/25 22:09	10/29/25 21:57	EPA 3050B	1,6010D	MJR
Potassium, Total	504	J	mg/kg	1080	219.	10	10/22/25 22:09	10/29/25 21:57	EPA 3050B	1,6010D	MJR
Selenium, Total	ND		mg/kg	8.62	1.42	10	10/22/25 22:09	10/29/25 21:57	EPA 3050B	1,6010D	MJR
Silver, Total	2.20		mg/kg	2.16	1.28	10	10/22/25 22:09	10/29/25 21:57	EPA 3050B	1,6010D	MJR
Sodium, Total	ND		mg/kg	862	457.	10	10/22/25 22:09	10/29/25 21:57	EPA 3050B	1,6010D	MJR
Thallium, Total	ND		mg/kg	8.62	3.89	10	10/22/25 22:09	10/29/25 21:57	EPA 3050B	1,6010D	MJR
Vanadium, Total	44.3		mg/kg	4.31	0.651	10	10/22/25 22:09	10/29/25 21:57	EPA 3050B	1,6010D	MJR
Zinc, Total	240		mg/kg	21.6	2.61	10	10/22/25 22:09	10/29/25 21:57	EPA 3050B	1,6010D	MJR
General Chemistry - Mansfield Lab											
Chromium, Trivalent	60.9		mg/kg	4.31	3.66	1		10/29/25 21:57	NA	107,-	

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-25
Client ID: FROG-SS-121 (22-24)
Sample Location: CARLISLE, PA
Date Collected: 10/16/25 09:16
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	14800		mg/kg	9.03	2.93	2	10/22/25 22:09	10/29/25 13:35	EPA 3050B	1,6010D	MRP
Antimony, Total	ND		mg/kg	4.51	3.48	2	10/22/25 22:09	10/29/25 13:35	EPA 3050B	1,6010D	MRP
Arsenic, Total	13.8		mg/kg	0.903	0.390	2	10/22/25 22:09	10/29/25 13:35	EPA 3050B	1,6010D	MRP
Barium, Total	147		mg/kg	0.903	0.096	2	10/22/25 22:09	10/29/25 13:35	EPA 3050B	1,6010D	MRP
Beryllium, Total	1.82		mg/kg	0.451	0.050	2	10/22/25 22:09	10/29/25 13:35	EPA 3050B	1,6010D	MRP
Cadmium, Total	0.103	J	mg/kg	0.903	0.050	2	10/22/25 22:09	10/29/25 13:35	EPA 3050B	1,6010D	MRP
Calcium, Total	3720		mg/kg	9.03	5.12	2	10/22/25 22:09	10/29/25 13:35	EPA 3050B	1,6010D	MRP
Chromium, Total	32.3		mg/kg	0.903	0.766	2	10/22/25 22:09	10/29/25 13:35	EPA 3050B	1,6010D	MRP
Cobalt, Total	13.5		mg/kg	1.80	0.224	2	10/22/25 22:09	10/29/25 13:35	EPA 3050B	1,6010D	MRP
Copper, Total	39.8		mg/kg	0.903	0.205	2	10/22/25 22:09	10/29/25 13:35	EPA 3050B	1,6010D	MRP
Iron, Total	30200		mg/kg	4.51	0.948	2	10/22/25 22:09	10/29/25 13:35	EPA 3050B	1,6010D	MRP
Lead, Total	24.6		mg/kg	4.51	0.215	2	10/22/25 22:09	10/29/25 13:35	EPA 3050B	1,6010D	MRP
Magnesium, Total	4620		mg/kg	9.03	1.47	2	10/22/25 22:09	10/29/25 13:35	EPA 3050B	1,6010D	MRP
Manganese, Total	3070		mg/kg	0.903	0.484	2	10/22/25 22:09	10/29/25 13:35	EPA 3050B	1,6010D	MRP
Mercury, Total	0.192		mg/kg	0.083	0.054	1	10/22/25 22:17	10/25/25 13:09	EPA 7471B	1,7471B	CME
Nickel, Total	27.9		mg/kg	2.26	0.730	2	10/22/25 22:09	10/29/25 13:35	EPA 3050B	1,6010D	MRP
Potassium, Total	1250		mg/kg	226	45.8	2	10/22/25 22:09	10/29/25 13:35	EPA 3050B	1,6010D	MRP
Selenium, Total	ND		mg/kg	1.80	0.297	2	10/22/25 22:09	10/29/25 13:35	EPA 3050B	1,6010D	MRP
Silver, Total	ND		mg/kg	0.451	0.269	2	10/22/25 22:09	10/29/25 13:35	EPA 3050B	1,6010D	MRP
Sodium, Total	ND		mg/kg	180	95.7	2	10/22/25 22:09	10/29/25 13:35	EPA 3050B	1,6010D	MRP
Thallium, Total	ND		mg/kg	1.80	0.814	2	10/22/25 22:09	10/29/25 13:35	EPA 3050B	1,6010D	MRP
Vanadium, Total	41.4		mg/kg	0.903	0.136	2	10/22/25 22:09	10/29/25 13:35	EPA 3050B	1,6010D	MRP
Zinc, Total	34.1		mg/kg	4.51	0.547	2	10/22/25 22:09	10/29/25 13:35	EPA 3050B	1,6010D	MRP
General Chemistry - Mansfield Lab											
Chromium, Trivalent	31.9	J	mg/kg	0.954	0.766	1		10/29/25 13:35	NA	107,-	

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-26
Client ID: FROG-SS-DUP-102
Sample Location: CARLISLE, PA
Date Collected: 10/16/25 00:00
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	12900		mg/kg	19.6	6.36	4	10/22/25 22:09	10/29/25 16:21	EPA 3050B	1,6010D	MRP
Antimony, Total	ND		mg/kg	9.79	7.54	4	10/22/25 22:09	10/29/25 16:21	EPA 3050B	1,6010D	MRP
Arsenic, Total	24.7		mg/kg	1.96	0.846	4	10/22/25 22:09	10/29/25 16:21	EPA 3050B	1,6010D	MRP
Barium, Total	65.6		mg/kg	1.96	0.207	4	10/22/25 22:09	10/29/25 16:21	EPA 3050B	1,6010D	MRP
Beryllium, Total	3.99		mg/kg	0.979	0.108	4	10/22/25 22:09	10/29/25 16:21	EPA 3050B	1,6010D	MRP
Cadmium, Total	0.302	J	mg/kg	1.96	0.108	4	10/22/25 22:09	10/29/25 16:21	EPA 3050B	1,6010D	MRP
Calcium, Total	60700		mg/kg	19.6	11.1	4	10/22/25 22:09	10/29/25 16:21	EPA 3050B	1,6010D	MRP
Chromium, Total	35.0		mg/kg	1.96	1.66	4	10/22/25 22:09	10/29/25 16:21	EPA 3050B	1,6010D	MRP
Cobalt, Total	29.8		mg/kg	3.91	0.485	4	10/22/25 22:09	10/29/25 16:21	EPA 3050B	1,6010D	MRP
Copper, Total	26.0		mg/kg	1.96	0.444	4	10/22/25 22:09	10/29/25 16:21	EPA 3050B	1,6010D	MRP
Iron, Total	74200		mg/kg	9.79	2.06	4	10/22/25 22:09	10/29/25 16:21	EPA 3050B	1,6010D	MRP
Lead, Total	18.8		mg/kg	9.79	0.466	4	10/22/25 22:09	10/29/25 16:21	EPA 3050B	1,6010D	MRP
Magnesium, Total	2000		mg/kg	19.6	3.19	4	10/22/25 22:09	10/29/25 16:21	EPA 3050B	1,6010D	MRP
Manganese, Total	611		mg/kg	1.96	1.05	4	10/22/25 22:09	10/29/25 16:21	EPA 3050B	1,6010D	MRP
Mercury, Total	0.237		mg/kg	0.090	0.059	1	10/22/25 22:17	10/25/25 13:42	EPA 7471B	1,7471B	CME
Nickel, Total	35.4		mg/kg	4.89	1.58	4	10/22/25 22:09	10/29/25 16:21	EPA 3050B	1,6010D	MRP
Potassium, Total	698		mg/kg	489	99.2	4	10/22/25 22:09	10/29/25 16:21	EPA 3050B	1,6010D	MRP
Selenium, Total	ND		mg/kg	3.91	0.644	4	10/22/25 22:09	10/29/25 16:21	EPA 3050B	1,6010D	MRP
Silver, Total	ND		mg/kg	0.979	0.583	4	10/22/25 22:09	10/29/25 16:21	EPA 3050B	1,6010D	MRP
Sodium, Total	ND		mg/kg	391	207.	4	10/22/25 22:09	10/29/25 16:21	EPA 3050B	1,6010D	MRP
Thallium, Total	ND		mg/kg	3.91	1.76	4	10/22/25 22:09	10/29/25 16:21	EPA 3050B	1,6010D	MRP
Vanadium, Total	73.1		mg/kg	1.96	0.296	4	10/22/25 22:09	10/29/25 16:21	EPA 3050B	1,6010D	MRP
Zinc, Total	48.4		mg/kg	9.79	1.19	4	10/22/25 22:09	10/29/25 16:21	EPA 3050B	1,6010D	MRP
General Chemistry - Mansfield Lab											
Chromium, Trivalent	34.6	J	mg/kg	1.96	1.66	1		10/29/25 16:21	NA	107,-	

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-27
Client ID: FROG-SS-FB-102
Sample Location: CARLISLE, PA
Date Collected: 10/16/25 13:10
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.100	0.0318	1	10/21/25 09:05	10/24/25 19:14	EPA 3005A	1,6010D	MJR
Antimony, Total	ND		mg/l	0.0500	0.0071	1	10/21/25 09:05	10/24/25 19:14	EPA 3005A	1,6010D	MJR
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	10/21/25 09:05	10/24/25 19:14	EPA 3005A	1,6010D	MJR
Barium, Total	ND		mg/l	0.0100	0.0021	1	10/21/25 09:05	10/24/25 19:14	EPA 3005A	1,6010D	MJR
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	10/21/25 09:05	10/24/25 19:14	EPA 3005A	1,6010D	MJR
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	10/21/25 09:05	10/24/25 19:14	EPA 3005A	1,6010D	MJR
Calcium, Total	ND		mg/l	0.100	0.0350	1	10/21/25 09:05	10/24/25 19:14	EPA 3005A	1,6010D	MJR
Chromium, Total	ND		mg/l	0.0100	0.0021	1	10/21/25 09:05	10/24/25 19:14	EPA 3005A	1,6010D	MJR
Cobalt, Total	ND		mg/l	0.0200	0.0017	1	10/21/25 09:05	10/24/25 19:14	EPA 3005A	1,6010D	MJR
Copper, Total	ND		mg/l	0.0100	0.0022	1	10/21/25 09:05	10/24/25 19:14	EPA 3005A	1,6010D	MJR
Iron, Total	ND		mg/l	0.0500	0.0090	1	10/21/25 09:05	10/24/25 19:14	EPA 3005A	1,6010D	MJR
Lead, Total	ND		mg/l	0.0100	0.0027	1	10/21/25 09:05	10/24/25 19:14	EPA 3005A	1,6010D	MJR
Magnesium, Total	ND		mg/l	0.100	0.0153	1	10/21/25 09:05	10/24/25 19:14	EPA 3005A	1,6010D	MJR
Manganese, Total	ND		mg/l	0.0100	0.0016	1	10/21/25 09:05	10/24/25 19:14	EPA 3005A	1,6010D	MJR
Mercury, Total	ND		mg/l	0.00020	0.00009	1	10/21/25 11:35	10/23/25 19:05	EPA 7470A	1,7470A	RDB
Nickel, Total	ND		mg/l	0.0250	0.0024	1	10/21/25 09:05	10/24/25 19:14	EPA 3005A	1,6010D	MJR
Potassium, Total	ND		mg/l	2.50	0.237	1	10/21/25 09:05	10/24/25 19:14	EPA 3005A	1,6010D	MJR
Selenium, Total	ND		mg/l	0.0100	0.0035	1	10/21/25 09:05	10/24/25 19:14	EPA 3005A	1,6010D	MJR
Silver, Total	ND		mg/l	0.0070	0.0028	1	10/21/25 09:05	10/24/25 19:14	EPA 3005A	1,6010D	MJR
Sodium, Total	ND		mg/l	2.00	0.120	1	10/21/25 09:05	10/24/25 19:14	EPA 3005A	1,6010D	MJR
Thallium, Total	ND		mg/l	0.0200	0.0025	1	10/21/25 09:05	10/24/25 19:14	EPA 3005A	1,6010D	MJR
Vanadium, Total	ND		mg/l	0.0100	0.0020	1	10/21/25 09:05	10/24/25 19:14	EPA 3005A	1,6010D	MJR
Zinc, Total	ND		mg/l	0.0500	0.0021	1	10/21/25 09:05	10/24/25 19:14	EPA 3005A	1,6010D	MJR
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		10/24/25 19:14	NA	107,-	

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-28
Client ID: FROG-SS-101 (0-2)
Sample Location: CARLISLE, PA
Date Collected: 10/17/25 12:40
Date Received: 10/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	12400		mg/kg	9.47	3.08	2	10/23/25 21:40	10/24/25 15:13	EPA 3050B	1,6010D	EFM
Antimony, Total	ND		mg/kg	4.73	3.64	2	10/23/25 21:40	10/24/25 15:13	EPA 3050B	1,6010D	EFM
Arsenic, Total	8.94		mg/kg	0.947	0.409	2	10/23/25 21:40	10/24/25 15:13	EPA 3050B	1,6010D	EFM
Barium, Total	63.8		mg/kg	0.947	0.100	2	10/23/25 21:40	10/24/25 15:13	EPA 3050B	1,6010D	EFM
Beryllium, Total	0.648		mg/kg	0.473	0.052	2	10/23/25 21:40	10/24/25 15:13	EPA 3050B	1,6010D	EFM
Cadmium, Total	0.061	J	mg/kg	0.947	0.052	2	10/23/25 21:40	10/24/25 15:13	EPA 3050B	1,6010D	EFM
Calcium, Total	1810		mg/kg	9.47	5.37	2	10/23/25 21:40	10/24/25 15:13	EPA 3050B	1,6010D	EFM
Chromium, Total	24.9		mg/kg	0.947	0.803	2	10/23/25 21:40	10/24/25 15:13	EPA 3050B	1,6010D	EFM
Cobalt, Total	10.0		mg/kg	1.89	0.235	2	10/23/25 21:40	10/24/25 15:13	EPA 3050B	1,6010D	EFM
Copper, Total	16.6		mg/kg	0.947	0.215	2	10/23/25 21:40	10/24/25 15:13	EPA 3050B	1,6010D	EFM
Iron, Total	26900		mg/kg	4.73	0.994	2	10/23/25 21:40	10/24/25 15:13	EPA 3050B	1,6010D	EFM
Lead, Total	22.3		mg/kg	4.73	0.225	2	10/23/25 21:40	10/24/25 15:13	EPA 3050B	1,6010D	EFM
Magnesium, Total	1010		mg/kg	9.47	1.54	2	10/23/25 21:40	10/24/25 15:13	EPA 3050B	1,6010D	EFM
Manganese, Total	644		mg/kg	0.947	0.507	2	10/23/25 21:40	10/24/25 15:13	EPA 3050B	1,6010D	EFM
Mercury, Total	ND		mg/kg	0.086	0.056	1	10/23/25 21:51	10/24/25 07:01	EPA 7471B	1,7471B	RDB
Nickel, Total	12.6		mg/kg	2.37	0.765	2	10/23/25 21:40	10/24/25 15:13	EPA 3050B	1,6010D	EFM
Potassium, Total	580		mg/kg	237	48.0	2	10/23/25 21:40	10/24/25 15:13	EPA 3050B	1,6010D	EFM
Selenium, Total	ND		mg/kg	1.89	0.311	2	10/23/25 21:40	10/24/25 15:13	EPA 3050B	1,6010D	EFM
Silver, Total	ND		mg/kg	0.473	0.282	2	10/23/25 21:40	10/24/25 15:13	EPA 3050B	1,6010D	EFM
Sodium, Total	ND		mg/kg	189	100.	2	10/23/25 21:40	10/24/25 15:13	EPA 3050B	1,6010D	EFM
Thallium, Total	ND		mg/kg	1.89	0.854	2	10/23/25 21:40	10/24/25 15:13	EPA 3050B	1,6010D	EFM
Vanadium, Total	36.7		mg/kg	0.947	0.143	2	10/23/25 21:40	10/24/25 15:13	EPA 3050B	1,6010D	EFM
Zinc, Total	30.6		mg/kg	4.73	0.574	2	10/23/25 21:40	10/24/25 15:13	EPA 3050B	1,6010D	EFM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	24.0	J	mg/kg	0.947	0.803	1		10/27/25 04:35	NA	107,-	

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-29
Client ID: FROG-SS-101 (3-5)
Sample Location: CARLISLE, PA
Date Collected: 10/17/25 12:41
Date Received: 10/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	12800		mg/kg	9.62	3.13	2	10/23/25 21:40	10/24/25 15:16	EPA 3050B	1,6010D	EFM
Antimony, Total	ND		mg/kg	4.81	3.70	2	10/23/25 21:40	10/24/25 15:16	EPA 3050B	1,6010D	EFM
Arsenic, Total	5.67		mg/kg	0.962	0.416	2	10/23/25 21:40	10/24/25 15:16	EPA 3050B	1,6010D	EFM
Barium, Total	25.4		mg/kg	0.962	0.102	2	10/23/25 21:40	10/24/25 15:16	EPA 3050B	1,6010D	EFM
Beryllium, Total	1.46		mg/kg	0.481	0.053	2	10/23/25 21:40	10/24/25 15:16	EPA 3050B	1,6010D	EFM
Cadmium, Total	0.095	J	mg/kg	0.962	0.053	2	10/23/25 21:40	10/24/25 15:16	EPA 3050B	1,6010D	EFM
Calcium, Total	2110		mg/kg	9.62	5.46	2	10/23/25 21:40	10/24/25 15:16	EPA 3050B	1,6010D	EFM
Chromium, Total	33.7		mg/kg	0.962	0.816	2	10/23/25 21:40	10/24/25 15:16	EPA 3050B	1,6010D	EFM
Cobalt, Total	14.2		mg/kg	1.92	0.239	2	10/23/25 21:40	10/24/25 15:16	EPA 3050B	1,6010D	EFM
Copper, Total	23.1		mg/kg	0.962	0.218	2	10/23/25 21:40	10/24/25 15:16	EPA 3050B	1,6010D	EFM
Iron, Total	37100		mg/kg	4.81	1.01	2	10/23/25 21:40	10/24/25 15:16	EPA 3050B	1,6010D	EFM
Lead, Total	18.3		mg/kg	4.81	0.229	2	10/23/25 21:40	10/24/25 15:16	EPA 3050B	1,6010D	EFM
Magnesium, Total	518		mg/kg	9.62	1.57	2	10/23/25 21:40	10/24/25 15:16	EPA 3050B	1,6010D	EFM
Manganese, Total	137		mg/kg	0.962	0.516	2	10/23/25 21:40	10/24/25 15:16	EPA 3050B	1,6010D	EFM
Mercury, Total	0.120		mg/kg	0.097	0.063	1	10/23/25 21:51	10/24/25 07:04	EPA 7471B	1,7471B	RDB
Nickel, Total	17.1		mg/kg	2.40	0.778	2	10/23/25 21:40	10/24/25 15:16	EPA 3050B	1,6010D	EFM
Potassium, Total	401		mg/kg	240	48.8	2	10/23/25 21:40	10/24/25 15:16	EPA 3050B	1,6010D	EFM
Selenium, Total	ND		mg/kg	1.92	0.317	2	10/23/25 21:40	10/24/25 15:16	EPA 3050B	1,6010D	EFM
Silver, Total	ND		mg/kg	0.481	0.287	2	10/23/25 21:40	10/24/25 15:16	EPA 3050B	1,6010D	EFM
Sodium, Total	ND		mg/kg	192	102.	2	10/23/25 21:40	10/24/25 15:16	EPA 3050B	1,6010D	EFM
Thallium, Total	ND		mg/kg	1.92	0.868	2	10/23/25 21:40	10/24/25 15:16	EPA 3050B	1,6010D	EFM
Vanadium, Total	49.9		mg/kg	0.962	0.145	2	10/23/25 21:40	10/24/25 15:16	EPA 3050B	1,6010D	EFM
Zinc, Total	26.8		mg/kg	4.81	0.583	2	10/23/25 21:40	10/24/25 15:16	EPA 3050B	1,6010D	EFM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	33.7		mg/kg	1.01	0.816	1		10/27/25 04:35	NA	107,-	

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-30
Client ID: FROG-SS-102 (0-2)
Sample Location: CARLISLE, PA
Date Collected: 10/17/25 13:45
Date Received: 10/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	8950		mg/kg	8.96	2.91	2	10/23/25 21:40	10/24/25 15:18	EPA 3050B	1,6010D	EFM
Antimony, Total	ND		mg/kg	4.48	3.45	2	10/23/25 21:40	10/24/25 15:18	EPA 3050B	1,6010D	EFM
Arsenic, Total	6.41		mg/kg	0.896	0.387	2	10/23/25 21:40	10/24/25 15:18	EPA 3050B	1,6010D	EFM
Barium, Total	60.7		mg/kg	0.896	0.095	2	10/23/25 21:40	10/24/25 15:18	EPA 3050B	1,6010D	EFM
Beryllium, Total	0.748		mg/kg	0.448	0.049	2	10/23/25 21:40	10/24/25 15:18	EPA 3050B	1,6010D	EFM
Cadmium, Total	0.218	J	mg/kg	0.896	0.049	2	10/23/25 21:40	10/24/25 15:18	EPA 3050B	1,6010D	EFM
Calcium, Total	13800		mg/kg	8.96	5.08	2	10/23/25 21:40	10/24/25 15:18	EPA 3050B	1,6010D	EFM
Chromium, Total	34.2		mg/kg	0.896	0.760	2	10/23/25 21:40	10/24/25 15:18	EPA 3050B	1,6010D	EFM
Cobalt, Total	8.57		mg/kg	1.79	0.222	2	10/23/25 21:40	10/24/25 15:18	EPA 3050B	1,6010D	EFM
Copper, Total	40.8		mg/kg	0.896	0.203	2	10/23/25 21:40	10/24/25 15:18	EPA 3050B	1,6010D	EFM
Iron, Total	20700		mg/kg	4.48	0.941	2	10/23/25 21:40	10/24/25 15:18	EPA 3050B	1,6010D	EFM
Lead, Total	51.2		mg/kg	4.48	0.213	2	10/23/25 21:40	10/24/25 15:18	EPA 3050B	1,6010D	EFM
Magnesium, Total	3400		mg/kg	8.96	1.46	2	10/23/25 21:40	10/24/25 15:18	EPA 3050B	1,6010D	EFM
Manganese, Total	1130		mg/kg	0.896	0.480	2	10/23/25 21:40	10/24/25 15:18	EPA 3050B	1,6010D	EFM
Mercury, Total	0.107		mg/kg	0.087	0.056	1	10/23/25 21:51	10/24/25 07:07	EPA 7471B	1,7471B	RDB
Nickel, Total	22.5		mg/kg	2.24	0.724	2	10/23/25 21:40	10/24/25 15:18	EPA 3050B	1,6010D	EFM
Potassium, Total	423		mg/kg	224	45.4	2	10/23/25 21:40	10/24/25 15:18	EPA 3050B	1,6010D	EFM
Selenium, Total	ND		mg/kg	1.79	0.295	2	10/23/25 21:40	10/24/25 15:18	EPA 3050B	1,6010D	EFM
Silver, Total	ND		mg/kg	0.448	0.267	2	10/23/25 21:40	10/24/25 15:18	EPA 3050B	1,6010D	EFM
Sodium, Total	ND		mg/kg	179	95.0	2	10/23/25 21:40	10/24/25 15:18	EPA 3050B	1,6010D	EFM
Thallium, Total	ND		mg/kg	1.79	0.808	2	10/23/25 21:40	10/24/25 15:18	EPA 3050B	1,6010D	EFM
Vanadium, Total	28.0		mg/kg	0.896	0.135	2	10/23/25 21:40	10/24/25 15:18	EPA 3050B	1,6010D	EFM
Zinc, Total	78.4		mg/kg	4.48	0.543	2	10/23/25 21:40	10/24/25 15:18	EPA 3050B	1,6010D	EFM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	34.2		mg/kg	0.897	0.760	1		10/27/25 04:35	NA	107,-	

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-31
Client ID: FROG-SS-102 (19-21)
Sample Location: CARLISLE, PA
Date Collected: 10/17/25 13:51
Date Received: 10/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	8980		mg/kg	9.53	3.10	2	10/23/25 21:40	10/24/25 15:20	EPA 3050B	1,6010D	EFM
Antimony, Total	ND		mg/kg	4.76	3.67	2	10/23/25 21:40	10/24/25 15:20	EPA 3050B	1,6010D	EFM
Arsenic, Total	7.14		mg/kg	0.953	0.412	2	10/23/25 21:40	10/24/25 15:20	EPA 3050B	1,6010D	EFM
Barium, Total	30.8		mg/kg	0.953	0.101	2	10/23/25 21:40	10/24/25 15:20	EPA 3050B	1,6010D	EFM
Beryllium, Total	1.84		mg/kg	0.476	0.052	2	10/23/25 21:40	10/24/25 15:20	EPA 3050B	1,6010D	EFM
Cadmium, Total	0.097	J	mg/kg	0.953	0.052	2	10/23/25 21:40	10/24/25 15:20	EPA 3050B	1,6010D	EFM
Calcium, Total	1780		mg/kg	9.53	5.40	2	10/23/25 21:40	10/24/25 15:20	EPA 3050B	1,6010D	EFM
Chromium, Total	34.9		mg/kg	0.953	0.808	2	10/23/25 21:40	10/24/25 15:20	EPA 3050B	1,6010D	EFM
Cobalt, Total	15.2		mg/kg	1.90	0.236	2	10/23/25 21:40	10/24/25 15:20	EPA 3050B	1,6010D	EFM
Copper, Total	21.8		mg/kg	0.953	0.216	2	10/23/25 21:40	10/24/25 15:20	EPA 3050B	1,6010D	EFM
Iron, Total	26400		mg/kg	4.76	1.00	2	10/23/25 21:40	10/24/25 15:20	EPA 3050B	1,6010D	EFM
Lead, Total	18.6		mg/kg	4.76	0.227	2	10/23/25 21:40	10/24/25 15:20	EPA 3050B	1,6010D	EFM
Magnesium, Total	1730		mg/kg	9.53	1.55	2	10/23/25 21:40	10/24/25 15:20	EPA 3050B	1,6010D	EFM
Manganese, Total	79.8		mg/kg	0.953	0.511	2	10/23/25 21:40	10/24/25 15:20	EPA 3050B	1,6010D	EFM
Mercury, Total	ND		mg/kg	0.103	0.067	1	10/23/25 21:51	10/24/25 07:10	EPA 7471B	1,7471B	RDB
Nickel, Total	21.5		mg/kg	2.38	0.770	2	10/23/25 21:40	10/24/25 15:20	EPA 3050B	1,6010D	EFM
Potassium, Total	516		mg/kg	238	48.3	2	10/23/25 21:40	10/24/25 15:20	EPA 3050B	1,6010D	EFM
Selenium, Total	ND		mg/kg	1.90	0.313	2	10/23/25 21:40	10/24/25 15:20	EPA 3050B	1,6010D	EFM
Silver, Total	ND		mg/kg	0.476	0.284	2	10/23/25 21:40	10/24/25 15:20	EPA 3050B	1,6010D	EFM
Sodium, Total	ND		mg/kg	190	101.	2	10/23/25 21:40	10/24/25 15:20	EPA 3050B	1,6010D	EFM
Thallium, Total	ND		mg/kg	1.90	0.859	2	10/23/25 21:40	10/24/25 15:20	EPA 3050B	1,6010D	EFM
Vanadium, Total	31.3		mg/kg	0.953	0.144	2	10/23/25 21:40	10/24/25 15:20	EPA 3050B	1,6010D	EFM
Zinc, Total	46.5		mg/kg	4.76	0.577	2	10/23/25 21:40	10/24/25 15:20	EPA 3050B	1,6010D	EFM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	34.9		mg/kg	1.01	0.808	1		10/27/25 04:35	NA	107,-	

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-32
Client ID: FROG-SS-115 (0-2)
Sample Location: CARLISLE, PA
Date Collected: 10/17/25 10:43
Date Received: 10/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6030		mg/kg	42.0	13.6	10	10/23/25 21:40	10/24/25 16:22	EPA 3050B	1,6010D	EFM
Antimony, Total	ND		mg/kg	21.0	16.2	10	10/23/25 21:40	10/24/25 16:22	EPA 3050B	1,6010D	EFM
Arsenic, Total	7.93		mg/kg	4.20	1.81	10	10/23/25 21:40	10/24/25 16:22	EPA 3050B	1,6010D	EFM
Barium, Total	78.2		mg/kg	4.20	0.445	10	10/23/25 21:40	10/24/25 16:22	EPA 3050B	1,6010D	EFM
Beryllium, Total	0.468	J	mg/kg	2.10	0.231	10	10/23/25 21:40	10/24/25 16:22	EPA 3050B	1,6010D	EFM
Cadmium, Total	ND		mg/kg	4.20	0.231	10	10/23/25 21:40	10/24/25 16:22	EPA 3050B	1,6010D	EFM
Calcium, Total	2580		mg/kg	42.0	23.8	10	10/23/25 21:40	10/24/25 16:22	EPA 3050B	1,6010D	EFM
Chromium, Total	101		mg/kg	4.20	3.56	10	10/23/25 21:40	10/24/25 16:22	EPA 3050B	1,6010D	EFM
Cobalt, Total	12.6		mg/kg	8.40	1.04	10	10/23/25 21:40	10/24/25 16:22	EPA 3050B	1,6010D	EFM
Copper, Total	73.1		mg/kg	4.20	0.953	10	10/23/25 21:40	10/24/25 16:22	EPA 3050B	1,6010D	EFM
Iron, Total	32900		mg/kg	21.0	4.41	10	10/23/25 21:40	10/24/25 16:22	EPA 3050B	1,6010D	EFM
Lead, Total	63.4		mg/kg	21.0	0.999	10	10/23/25 21:40	10/24/25 16:22	EPA 3050B	1,6010D	EFM
Magnesium, Total	12600		mg/kg	42.0	6.84	10	10/23/25 21:40	10/24/25 16:22	EPA 3050B	1,6010D	EFM
Manganese, Total	20500		mg/kg	4.20	2.25	10	10/23/25 21:40	10/24/25 16:22	EPA 3050B	1,6010D	EFM
Mercury, Total	0.047	J	mg/kg	0.068	0.045	1	10/23/25 21:51	10/24/25 07:13	EPA 7471B	1,7471B	RDB
Nickel, Total	120		mg/kg	10.5	3.39	10	10/23/25 21:40	10/24/25 16:22	EPA 3050B	1,6010D	EFM
Potassium, Total	422	J	mg/kg	1050	213.	10	10/23/25 21:40	10/24/25 16:22	EPA 3050B	1,6010D	EFM
Selenium, Total	ND		mg/kg	8.40	1.38	10	10/23/25 21:40	10/24/25 16:22	EPA 3050B	1,6010D	EFM
Silver, Total	ND		mg/kg	2.10	1.25	10	10/23/25 21:40	10/24/25 16:22	EPA 3050B	1,6010D	EFM
Sodium, Total	ND		mg/kg	840	445.	10	10/23/25 21:40	10/24/25 16:22	EPA 3050B	1,6010D	EFM
Thallium, Total	ND		mg/kg	8.40	3.79	10	10/23/25 21:40	10/24/25 16:22	EPA 3050B	1,6010D	EFM
Vanadium, Total	16.3		mg/kg	4.20	0.634	10	10/23/25 21:40	10/24/25 16:22	EPA 3050B	1,6010D	EFM
Zinc, Total	76.7		mg/kg	21.0	2.54	10	10/23/25 21:40	10/24/25 16:22	EPA 3050B	1,6010D	EFM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	101		mg/kg	4.20	3.56	1		10/27/25 04:35	NA	107,-	

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-33
Client ID: FROG-SS-115 (7.5-9.5)
Sample Location: CARLISLE, PA
Date Collected: 10/17/25 10:45
Date Received: 10/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	10100		mg/kg	9.78	3.18	2	10/23/25 21:40	10/24/25 15:24	EPA 3050B	1,6010D	EFM
Antimony, Total	ND		mg/kg	4.89	3.77	2	10/23/25 21:40	10/24/25 15:24	EPA 3050B	1,6010D	EFM
Arsenic, Total	9.74		mg/kg	0.978	0.423	2	10/23/25 21:40	10/24/25 15:24	EPA 3050B	1,6010D	EFM
Barium, Total	22.7		mg/kg	0.978	0.104	2	10/23/25 21:40	10/24/25 15:24	EPA 3050B	1,6010D	EFM
Beryllium, Total	1.79		mg/kg	0.489	0.054	2	10/23/25 21:40	10/24/25 15:24	EPA 3050B	1,6010D	EFM
Cadmium, Total	0.120	J	mg/kg	0.978	0.054	2	10/23/25 21:40	10/24/25 15:24	EPA 3050B	1,6010D	EFM
Calcium, Total	602		mg/kg	9.78	5.55	2	10/23/25 21:40	10/24/25 15:24	EPA 3050B	1,6010D	EFM
Chromium, Total	27.2		mg/kg	0.978	0.830	2	10/23/25 21:40	10/24/25 15:24	EPA 3050B	1,6010D	EFM
Cobalt, Total	38.8		mg/kg	1.96	0.243	2	10/23/25 21:40	10/24/25 15:24	EPA 3050B	1,6010D	EFM
Copper, Total	34.9		mg/kg	0.978	0.222	2	10/23/25 21:40	10/24/25 15:24	EPA 3050B	1,6010D	EFM
Iron, Total	35000		mg/kg	4.89	1.03	2	10/23/25 21:40	10/24/25 15:24	EPA 3050B	1,6010D	EFM
Lead, Total	41.0		mg/kg	4.89	0.233	2	10/23/25 21:40	10/24/25 15:24	EPA 3050B	1,6010D	EFM
Magnesium, Total	1070		mg/kg	9.78	1.59	2	10/23/25 21:40	10/24/25 15:24	EPA 3050B	1,6010D	EFM
Manganese, Total	138		mg/kg	0.978	0.524	2	10/23/25 21:40	10/24/25 15:24	EPA 3050B	1,6010D	EFM
Mercury, Total	0.114		mg/kg	0.091	0.059	1	10/23/25 21:51	10/24/25 07:35	EPA 7471B	1,7471B	RDB
Nickel, Total	31.6		mg/kg	2.44	0.790	2	10/23/25 21:40	10/24/25 15:24	EPA 3050B	1,6010D	EFM
Potassium, Total	346		mg/kg	244	49.6	2	10/23/25 21:40	10/24/25 15:24	EPA 3050B	1,6010D	EFM
Selenium, Total	ND		mg/kg	1.96	0.322	2	10/23/25 21:40	10/24/25 15:24	EPA 3050B	1,6010D	EFM
Silver, Total	ND		mg/kg	0.489	0.292	2	10/23/25 21:40	10/24/25 15:24	EPA 3050B	1,6010D	EFM
Sodium, Total	ND		mg/kg	196	104.	2	10/23/25 21:40	10/24/25 15:24	EPA 3050B	1,6010D	EFM
Thallium, Total	ND		mg/kg	1.96	0.882	2	10/23/25 21:40	10/24/25 15:24	EPA 3050B	1,6010D	EFM
Vanadium, Total	52.8		mg/kg	0.978	0.148	2	10/23/25 21:40	10/24/25 15:24	EPA 3050B	1,6010D	EFM
Zinc, Total	82.0		mg/kg	4.89	0.593	2	10/23/25 21:40	10/24/25 15:24	EPA 3050B	1,6010D	EFM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	27.2		mg/kg	0.988	0.830	1		10/27/25 04:35	NA	107,-	

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-34
Client ID: FROG-SS-116 (0-2)
Sample Location: CARLISLE, PA
Date Collected: 10/17/25 09:42
Date Received: 10/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2440		mg/kg	41.6	13.5	10	10/23/25 21:40	10/24/25 16:24	EPA 3050B	1,6010D	EFM
Antimony, Total	ND		mg/kg	20.8	16.0	10	10/23/25 21:40	10/24/25 16:24	EPA 3050B	1,6010D	EFM
Arsenic, Total	11.3		mg/kg	4.16	1.80	10	10/23/25 21:40	10/24/25 16:24	EPA 3050B	1,6010D	EFM
Barium, Total	33.3		mg/kg	4.16	0.441	10	10/23/25 21:40	10/24/25 16:24	EPA 3050B	1,6010D	EFM
Beryllium, Total	ND		mg/kg	2.08	0.229	10	10/23/25 21:40	10/24/25 16:24	EPA 3050B	1,6010D	EFM
Cadmium, Total	1.30	J	mg/kg	4.16	0.229	10	10/23/25 21:40	10/24/25 16:24	EPA 3050B	1,6010D	EFM
Calcium, Total	6600		mg/kg	41.6	23.6	10	10/23/25 21:40	10/24/25 16:24	EPA 3050B	1,6010D	EFM
Chromium, Total	332		mg/kg	4.16	3.53	10	10/23/25 21:40	10/24/25 16:24	EPA 3050B	1,6010D	EFM
Cobalt, Total	24.6		mg/kg	8.32	1.03	10	10/23/25 21:40	10/24/25 16:24	EPA 3050B	1,6010D	EFM
Copper, Total	195		mg/kg	4.16	0.944	10	10/23/25 21:40	10/24/25 16:24	EPA 3050B	1,6010D	EFM
Iron, Total	53300		mg/kg	20.8	4.37	10	10/23/25 21:40	10/24/25 16:24	EPA 3050B	1,6010D	EFM
Lead, Total	29.0		mg/kg	20.8	0.990	10	10/23/25 21:40	10/24/25 16:24	EPA 3050B	1,6010D	EFM
Magnesium, Total	43400		mg/kg	41.6	6.78	10	10/23/25 21:40	10/24/25 16:24	EPA 3050B	1,6010D	EFM
Manganese, Total	8260		mg/kg	4.16	2.23	10	10/23/25 21:40	10/24/25 16:24	EPA 3050B	1,6010D	EFM
Mercury, Total	0.055	J	mg/kg	0.071	0.046	1	10/23/25 21:51	10/24/25 07:38	EPA 7471B	1,7471B	RDB
Nickel, Total	429		mg/kg	10.4	3.36	10	10/23/25 21:40	10/24/25 16:24	EPA 3050B	1,6010D	EFM
Potassium, Total	ND		mg/kg	1040	211.	10	10/23/25 21:40	10/24/25 16:24	EPA 3050B	1,6010D	EFM
Selenium, Total	ND		mg/kg	8.32	1.37	10	10/23/25 21:40	10/24/25 16:24	EPA 3050B	1,6010D	EFM
Silver, Total	ND		mg/kg	2.08	1.24	10	10/23/25 21:40	10/24/25 16:24	EPA 3050B	1,6010D	EFM
Sodium, Total	ND		mg/kg	832	441.	10	10/23/25 21:40	10/24/25 16:24	EPA 3050B	1,6010D	EFM
Thallium, Total	ND		mg/kg	8.32	3.75	10	10/23/25 21:40	10/24/25 16:24	EPA 3050B	1,6010D	EFM
Vanadium, Total	14.9		mg/kg	4.16	0.628	10	10/23/25 21:40	10/24/25 16:24	EPA 3050B	1,6010D	EFM
Zinc, Total	63.2		mg/kg	20.8	2.52	10	10/23/25 21:40	10/24/25 16:24	EPA 3050B	1,6010D	EFM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	317		mg/kg	4.16	3.53	1		10/27/25 04:35	NA	107,-	

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-35 Date Collected: 10/17/25 09:44

Client ID: FROG-SS-116 (18.5-20.5) Date Received: 10/17/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	8240		mg/kg	9.64	3.13	2	10/23/25 21:40	10/24/25 10:21	EPA 3050B	1,6010D	TLD
Antimony, Total	ND		mg/kg	4.82	3.71	2	10/23/25 21:40	10/24/25 10:21	EPA 3050B	1,6010D	TLD
Arsenic, Total	6.28		mg/kg	0.964	0.416	2	10/23/25 21:40	10/24/25 10:21	EPA 3050B	1,6010D	TLD
Barium, Total	35.1		mg/kg	0.964	0.102	2	10/23/25 21:40	10/24/25 10:21	EPA 3050B	1,6010D	TLD
Beryllium, Total	1.59		mg/kg	0.482	0.053	2	10/23/25 21:40	10/24/25 10:21	EPA 3050B	1,6010D	TLD
Cadmium, Total	0.071	J	mg/kg	0.964	0.053	2	10/23/25 21:40	10/24/25 10:21	EPA 3050B	1,6010D	TLD
Calcium, Total	1280		mg/kg	9.64	5.46	2	10/23/25 21:40	10/24/25 10:21	EPA 3050B	1,6010D	TLD
Chromium, Total	53.9		mg/kg	0.964	0.817	2	10/23/25 21:40	10/24/25 10:21	EPA 3050B	1,6010D	TLD
Cobalt, Total	23.0		mg/kg	1.93	0.239	2	10/23/25 21:40	10/24/25 10:21	EPA 3050B	1,6010D	TLD
Copper, Total	25.8		mg/kg	0.964	0.219	2	10/23/25 21:40	10/24/25 10:21	EPA 3050B	1,6010D	TLD
Iron, Total	24900		mg/kg	4.82	1.01	2	10/23/25 21:40	10/24/25 10:21	EPA 3050B	1,6010D	TLD
Lead, Total	25.3		mg/kg	4.82	0.229	2	10/23/25 21:40	10/24/25 10:21	EPA 3050B	1,6010D	TLD
Magnesium, Total	2700		mg/kg	9.64	1.57	2	10/23/25 21:40	10/24/25 10:21	EPA 3050B	1,6010D	TLD
Manganese, Total	452		mg/kg	0.964	0.516	2	10/23/25 21:40	10/24/25 10:21	EPA 3050B	1,6010D	TLD
Mercury, Total	0.070	J	mg/kg	0.093	0.061	1	10/23/25 21:51	10/24/25 06:52	EPA 7471B	1,7471B	RDB
Nickel, Total	25.0		mg/kg	2.41	0.779	2	10/23/25 21:40	10/24/25 10:21	EPA 3050B	1,6010D	TLD
Potassium, Total	431		mg/kg	241	48.9	2	10/23/25 21:40	10/24/25 10:21	EPA 3050B	1,6010D	TLD
Selenium, Total	ND		mg/kg	1.93	0.317	2	10/23/25 21:40	10/24/25 10:21	EPA 3050B	1,6010D	TLD
Silver, Total	ND		mg/kg	0.482	0.287	2	10/23/25 21:40	10/24/25 10:21	EPA 3050B	1,6010D	TLD
Sodium, Total	ND		mg/kg	193	102.	2	10/23/25 21:40	10/24/25 10:21	EPA 3050B	1,6010D	TLD
Thallium, Total	ND		mg/kg	1.93	0.869	2	10/23/25 21:40	10/24/25 10:21	EPA 3050B	1,6010D	TLD
Vanadium, Total	53.5		mg/kg	0.964	0.146	2	10/23/25 21:40	10/24/25 10:21	EPA 3050B	1,6010D	TLD
Zinc, Total	31.6		mg/kg	4.82	0.584	2	10/23/25 21:40	10/24/25 10:21	EPA 3050B	1,6010D	TLD
General Chemistry - Mansfield Lab											
Chromium, Trivalent	53.1	J	mg/kg	0.988	0.817	1		10/27/25 04:35	NA	107,-	

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-36
Client ID: FROG-SS-117 (0-2)
Sample Location: CARLISLE, PA
Date Collected: 10/17/25 08:14
Date Received: 10/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4820		mg/kg	8.07	2.62	2	10/23/25 21:40	10/24/25 15:29	EPA 3050B	1,6010D	EFM
Antimony, Total	ND		mg/kg	4.04	3.11	2	10/23/25 21:40	10/24/25 15:29	EPA 3050B	1,6010D	EFM
Arsenic, Total	8.96		mg/kg	0.807	0.349	2	10/23/25 21:40	10/24/25 15:29	EPA 3050B	1,6010D	EFM
Barium, Total	58.6		mg/kg	0.807	0.086	2	10/23/25 21:40	10/24/25 15:29	EPA 3050B	1,6010D	EFM
Beryllium, Total	0.377	J	mg/kg	0.404	0.044	2	10/23/25 21:40	10/24/25 15:29	EPA 3050B	1,6010D	EFM
Cadmium, Total	0.116	J	mg/kg	0.807	0.044	2	10/23/25 21:40	10/24/25 15:29	EPA 3050B	1,6010D	EFM
Calcium, Total	7880		mg/kg	8.07	4.58	2	10/23/25 21:40	10/24/25 15:29	EPA 3050B	1,6010D	EFM
Chromium, Total	85.9		mg/kg	0.807	0.684	2	10/23/25 21:40	10/24/25 15:29	EPA 3050B	1,6010D	EFM
Cobalt, Total	14.4		mg/kg	1.61	0.200	2	10/23/25 21:40	10/24/25 15:29	EPA 3050B	1,6010D	EFM
Copper, Total	69.8		mg/kg	0.807	0.183	2	10/23/25 21:40	10/24/25 15:29	EPA 3050B	1,6010D	EFM
Iron, Total	29900		mg/kg	4.04	0.848	2	10/23/25 21:40	10/24/25 15:29	EPA 3050B	1,6010D	EFM
Lead, Total	38.8		mg/kg	4.04	0.192	2	10/23/25 21:40	10/24/25 15:29	EPA 3050B	1,6010D	EFM
Magnesium, Total	15600		mg/kg	8.07	1.32	2	10/23/25 21:40	10/24/25 15:29	EPA 3050B	1,6010D	EFM
Manganese, Total	5630		mg/kg	0.807	0.433	2	10/23/25 21:40	10/24/25 15:29	EPA 3050B	1,6010D	EFM
Mercury, Total	ND		mg/kg	0.077	0.050	1	10/23/25 21:51	10/24/25 07:41	EPA 7471B	1,7471B	RDB
Nickel, Total	152		mg/kg	2.02	0.652	2	10/23/25 21:40	10/24/25 15:29	EPA 3050B	1,6010D	EFM
Potassium, Total	270		mg/kg	202	40.9	2	10/23/25 21:40	10/24/25 15:29	EPA 3050B	1,6010D	EFM
Selenium, Total	ND		mg/kg	1.61	0.266	2	10/23/25 21:40	10/24/25 15:29	EPA 3050B	1,6010D	EFM
Silver, Total	0.244	J	mg/kg	0.404	0.240	2	10/23/25 21:40	10/24/25 15:29	EPA 3050B	1,6010D	EFM
Sodium, Total	ND		mg/kg	161	85.6	2	10/23/25 21:40	10/24/25 15:29	EPA 3050B	1,6010D	EFM
Thallium, Total	ND		mg/kg	1.61	0.728	2	10/23/25 21:40	10/24/25 15:29	EPA 3050B	1,6010D	EFM
Vanadium, Total	15.5		mg/kg	0.807	0.122	2	10/23/25 21:40	10/24/25 15:29	EPA 3050B	1,6010D	EFM
Zinc, Total	47.9		mg/kg	4.04	0.489	2	10/23/25 21:40	10/24/25 15:29	EPA 3050B	1,6010D	EFM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	85.9		mg/kg	0.846	0.684	1		10/27/25 04:35	NA	107,-	

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-37
Client ID: FROG-SS-117 (11-13)
Sample Location: CARLISLE, PA
Date Collected: 10/17/25 08:22
Date Received: 10/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	9170		mg/kg	9.15	2.97	2	10/23/25 21:40	10/24/25 15:31	EPA 3050B	1,6010D	EFM
Antimony, Total	ND		mg/kg	4.58	3.52	2	10/23/25 21:40	10/24/25 15:31	EPA 3050B	1,6010D	EFM
Arsenic, Total	7.31		mg/kg	0.915	0.395	2	10/23/25 21:40	10/24/25 15:31	EPA 3050B	1,6010D	EFM
Barium, Total	60.0		mg/kg	0.915	0.097	2	10/23/25 21:40	10/24/25 15:31	EPA 3050B	1,6010D	EFM
Beryllium, Total	1.22		mg/kg	0.458	0.050	2	10/23/25 21:40	10/24/25 15:31	EPA 3050B	1,6010D	EFM
Cadmium, Total	ND		mg/kg	0.915	0.050	2	10/23/25 21:40	10/24/25 15:31	EPA 3050B	1,6010D	EFM
Calcium, Total	43500		mg/kg	9.15	5.19	2	10/23/25 21:40	10/24/25 15:31	EPA 3050B	1,6010D	EFM
Chromium, Total	78.6		mg/kg	0.915	0.776	2	10/23/25 21:40	10/24/25 15:31	EPA 3050B	1,6010D	EFM
Cobalt, Total	16.4		mg/kg	1.83	0.227	2	10/23/25 21:40	10/24/25 15:31	EPA 3050B	1,6010D	EFM
Copper, Total	22.8		mg/kg	0.915	0.208	2	10/23/25 21:40	10/24/25 15:31	EPA 3050B	1,6010D	EFM
Iron, Total	40100		mg/kg	4.58	0.961	2	10/23/25 21:40	10/24/25 15:31	EPA 3050B	1,6010D	EFM
Lead, Total	20.0		mg/kg	4.58	0.218	2	10/23/25 21:40	10/24/25 15:31	EPA 3050B	1,6010D	EFM
Magnesium, Total	27200		mg/kg	9.15	1.49	2	10/23/25 21:40	10/24/25 15:31	EPA 3050B	1,6010D	EFM
Manganese, Total	1030		mg/kg	0.915	0.490	2	10/23/25 21:40	10/24/25 15:31	EPA 3050B	1,6010D	EFM
Mercury, Total	ND		mg/kg	0.096	0.063	1	10/23/25 21:51	10/24/25 07:44	EPA 7471B	1,7471B	RDB
Nickel, Total	33.3		mg/kg	2.29	0.739	2	10/23/25 21:40	10/24/25 15:31	EPA 3050B	1,6010D	EFM
Potassium, Total	546		mg/kg	229	46.4	2	10/23/25 21:40	10/24/25 15:31	EPA 3050B	1,6010D	EFM
Selenium, Total	ND		mg/kg	1.83	0.301	2	10/23/25 21:40	10/24/25 15:31	EPA 3050B	1,6010D	EFM
Silver, Total	ND		mg/kg	0.458	0.273	2	10/23/25 21:40	10/24/25 15:31	EPA 3050B	1,6010D	EFM
Sodium, Total	ND		mg/kg	183	97.0	2	10/23/25 21:40	10/24/25 15:31	EPA 3050B	1,6010D	EFM
Thallium, Total	ND		mg/kg	1.83	0.826	2	10/23/25 21:40	10/24/25 15:31	EPA 3050B	1,6010D	EFM
Vanadium, Total	38.9		mg/kg	0.915	0.138	2	10/23/25 21:40	10/24/25 15:31	EPA 3050B	1,6010D	EFM
Zinc, Total	29.0		mg/kg	4.58	0.555	2	10/23/25 21:40	10/24/25 15:31	EPA 3050B	1,6010D	EFM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	76.9		mg/kg	0.931	0.776	1		10/24/25 15:31	NA	107,-	

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-38
Client ID: FROG-SS-DUP-103
Sample Location: CARLISLE, PA
Date Collected: 10/17/25 00:00
Date Received: 10/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4320		mg/kg	8.05	2.62	2	10/23/25 21:40	10/24/25 15:40	EPA 3050B	1,6010D	EFM
Antimony, Total	ND		mg/kg	4.02	3.10	2	10/23/25 21:40	10/24/25 15:40	EPA 3050B	1,6010D	EFM
Arsenic, Total	6.62		mg/kg	0.805	0.348	2	10/23/25 21:40	10/24/25 15:40	EPA 3050B	1,6010D	EFM
Barium, Total	46.0		mg/kg	0.805	0.085	2	10/23/25 21:40	10/24/25 15:40	EPA 3050B	1,6010D	EFM
Beryllium, Total	0.273	J	mg/kg	0.402	0.044	2	10/23/25 21:40	10/24/25 15:40	EPA 3050B	1,6010D	EFM
Cadmium, Total	ND		mg/kg	0.805	0.044	2	10/23/25 21:40	10/24/25 15:40	EPA 3050B	1,6010D	EFM
Calcium, Total	36300		mg/kg	8.05	4.56	2	10/23/25 21:40	10/24/25 15:40	EPA 3050B	1,6010D	EFM
Chromium, Total	78.0		mg/kg	0.805	0.683	2	10/23/25 21:40	10/24/25 15:40	EPA 3050B	1,6010D	EFM
Cobalt, Total	13.3		mg/kg	1.61	0.200	2	10/23/25 21:40	10/24/25 15:40	EPA 3050B	1,6010D	EFM
Copper, Total	57.2		mg/kg	0.805	0.183	2	10/23/25 21:40	10/24/25 15:40	EPA 3050B	1,6010D	EFM
Iron, Total	28000		mg/kg	4.02	0.845	2	10/23/25 21:40	10/24/25 15:40	EPA 3050B	1,6010D	EFM
Lead, Total	25.0		mg/kg	4.02	0.192	2	10/23/25 21:40	10/24/25 15:40	EPA 3050B	1,6010D	EFM
Magnesium, Total	18800		mg/kg	8.05	1.31	2	10/23/25 21:40	10/24/25 15:40	EPA 3050B	1,6010D	EFM
Manganese, Total	4290		mg/kg	0.805	0.432	2	10/23/25 21:40	10/24/25 15:40	EPA 3050B	1,6010D	EFM
Mercury, Total	ND		mg/kg	0.071	0.046	1	10/23/25 21:51	10/24/25 07:46	EPA 7471B	1,7471B	RDB
Nickel, Total	166		mg/kg	2.01	0.650	2	10/23/25 21:40	10/24/25 15:40	EPA 3050B	1,6010D	EFM
Potassium, Total	271		mg/kg	201	40.8	2	10/23/25 21:40	10/24/25 15:40	EPA 3050B	1,6010D	EFM
Selenium, Total	ND		mg/kg	1.61	0.265	2	10/23/25 21:40	10/24/25 15:40	EPA 3050B	1,6010D	EFM
Silver, Total	ND		mg/kg	0.402	0.240	2	10/23/25 21:40	10/24/25 15:40	EPA 3050B	1,6010D	EFM
Sodium, Total	ND		mg/kg	161	85.3	2	10/23/25 21:40	10/24/25 15:40	EPA 3050B	1,6010D	EFM
Thallium, Total	ND		mg/kg	1.61	0.726	2	10/23/25 21:40	10/24/25 15:40	EPA 3050B	1,6010D	EFM
Vanadium, Total	12.1		mg/kg	0.805	0.122	2	10/23/25 21:40	10/24/25 15:40	EPA 3050B	1,6010D	EFM
Zinc, Total	39.7		mg/kg	4.02	0.488	2	10/23/25 21:40	10/24/25 15:40	EPA 3050B	1,6010D	EFM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	77.4	J	mg/kg	0.838	0.683	1		10/24/25 15:40	NA	107,-	

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-39 Date Collected: 10/17/25 12:10

Client ID: FROG-SS-FB-103 Date Received: 10/17/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.100	0.0318	1	10/23/25 11:11	10/29/25 22:27	EPA 3005A	1,6010D	JMF
Antimony, Total	ND		mg/l	0.0500	0.0071	1	10/23/25 11:11	10/29/25 22:27	EPA 3005A	1,6010D	JMF
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	10/23/25 11:11	10/29/25 22:27	EPA 3005A	1,6010D	JMF
Barium, Total	ND		mg/l	0.0100	0.0021	1	10/23/25 11:11	10/29/25 22:27	EPA 3005A	1,6010D	JMF
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	10/23/25 11:11	10/29/25 22:27	EPA 3005A	1,6010D	JMF
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	10/23/25 11:11	10/29/25 22:27	EPA 3005A	1,6010D	JMF
Calcium, Total	ND		mg/l	0.100	0.0350	1	10/23/25 11:11	10/29/25 22:27	EPA 3005A	1,6010D	JMF
Chromium, Total	ND		mg/l	0.0100	0.0021	1	10/23/25 11:11	10/29/25 22:27	EPA 3005A	1,6010D	JMF
Cobalt, Total	ND		mg/l	0.0200	0.0017	1	10/23/25 11:11	10/29/25 22:27	EPA 3005A	1,6010D	JMF
Copper, Total	ND		mg/l	0.0100	0.0022	1	10/23/25 11:11	10/29/25 22:27	EPA 3005A	1,6010D	JMF
Iron, Total	ND		mg/l	0.0500	0.0090	1	10/23/25 11:11	10/29/25 22:27	EPA 3005A	1,6010D	JMF
Lead, Total	ND		mg/l	0.0100	0.0027	1	10/23/25 11:11	10/29/25 22:27	EPA 3005A	1,6010D	JMF
Magnesium, Total	ND		mg/l	0.100	0.0153	1	10/23/25 11:11	10/29/25 22:27	EPA 3005A	1,6010D	JMF
Manganese, Total	ND		mg/l	0.0100	0.0016	1	10/23/25 11:11	10/29/25 22:27	EPA 3005A	1,6010D	JMF
Mercury, Total	ND		mg/l	0.00020	0.00009	1	10/23/25 12:16	10/25/25 13:10	EPA 7470A	1,7470A	CME
Nickel, Total	ND		mg/l	0.0250	0.0024	1	10/23/25 11:11	10/29/25 22:27	EPA 3005A	1,6010D	JMF
Potassium, Total	ND		mg/l	2.50	0.237	1	10/23/25 11:11	10/29/25 22:27	EPA 3005A	1,6010D	JMF
Selenium, Total	ND		mg/l	0.0100	0.0035	1	10/23/25 11:11	10/29/25 22:27	EPA 3005A	1,6010D	JMF
Silver, Total	ND		mg/l	0.0070	0.0028	1	10/23/25 11:11	10/29/25 22:27	EPA 3005A	1,6010D	JMF
Sodium, Total	ND		mg/l	2.00	0.120	1	10/23/25 11:11	10/29/25 22:27	EPA 3005A	1,6010D	JMF
Thallium, Total	ND		mg/l	0.0200	0.0025	1	10/23/25 11:11	10/29/25 22:27	EPA 3005A	1,6010D	JMF
Vanadium, Total	ND		mg/l	0.0100	0.0020	1	10/23/25 11:11	10/29/25 22:27	EPA 3005A	1,6010D	JMF
Zinc, Total	ND		mg/l	0.0500	0.0021	1	10/23/25 11:11	10/29/25 22:27	EPA 3005A	1,6010D	JMF
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		10/29/25 22:27	NA	107,-	

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-44
Client ID: FROG-SS-119 (0-0.5)
Sample Location: CARLISLE, PA
Date Collected: 10/20/25 14:00
Date Received: 10/20/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3440		mg/kg	85.1	27.6	20	10/26/25 09:58	10/31/25 20:25	EPA 3050B	1,6010D	MRP
Antimony, Total	ND		mg/kg	42.5	32.8	20	10/26/25 09:58	10/31/25 20:25	EPA 3050B	1,6010D	MRP
Arsenic, Total	16.9		mg/kg	8.51	3.68	20	10/26/25 09:58	10/31/25 20:25	EPA 3050B	1,6010D	MRP
Barium, Total	144		mg/kg	8.51	0.902	20	10/26/25 09:58	10/31/25 20:25	EPA 3050B	1,6010D	MRP
Beryllium, Total	ND		mg/kg	4.25	0.468	20	10/26/25 09:58	10/31/25 20:25	EPA 3050B	1,6010D	MRP
Cadmium, Total	2.56	J	mg/kg	8.51	0.468	20	10/26/25 09:58	10/31/25 20:25	EPA 3050B	1,6010D	MRP
Calcium, Total	44500		mg/kg	85.1	48.2	20	10/26/25 09:58	10/31/25 20:25	EPA 3050B	1,6010D	MRP
Chromium, Total	1390		mg/kg	8.51	7.22	20	10/26/25 09:58	10/31/25 20:25	EPA 3050B	1,6010D	MRP
Cobalt, Total	45.6		mg/kg	17.0	2.11	20	10/26/25 09:58	10/31/25 20:25	EPA 3050B	1,6010D	MRP
Copper, Total	649		mg/kg	8.51	1.93	20	10/26/25 09:58	10/31/25 20:25	EPA 3050B	1,6010D	MRP
Iron, Total	194000		mg/kg	213	44.7	100	10/26/25 09:58	10/31/25 23:00	EPA 3050B	1,6010D	EFM
Lead, Total	124		mg/kg	42.5	2.02	20	10/26/25 09:58	10/31/25 20:25	EPA 3050B	1,6010D	MRP
Magnesium, Total	54400		mg/kg	85.1	13.9	20	10/26/25 09:58	10/31/25 20:25	EPA 3050B	1,6010D	MRP
Manganese, Total	60900		mg/kg	8.51	4.56	20	10/26/25 09:58	10/31/25 20:25	EPA 3050B	1,6010D	MRP
Mercury, Total	0.054	J	mg/kg	0.081	0.053	1	10/26/25 10:30	10/27/25 11:51	EPA 7471B	1,7471B	JWN
Nickel, Total	568		mg/kg	21.3	6.88	20	10/26/25 09:58	10/31/25 20:25	EPA 3050B	1,6010D	MRP
Potassium, Total	ND		mg/kg	2130	431.	20	10/26/25 09:58	10/31/25 20:25	EPA 3050B	1,6010D	MRP
Selenium, Total	ND		mg/kg	17.0	2.80	20	10/26/25 09:58	10/31/25 20:25	EPA 3050B	1,6010D	MRP
Silver, Total	ND		mg/kg	4.25	2.54	20	10/26/25 09:58	10/31/25 20:25	EPA 3050B	1,6010D	MRP
Sodium, Total	ND		mg/kg	1700	902.	20	10/26/25 09:58	10/31/25 20:25	EPA 3050B	1,6010D	MRP
Thallium, Total	ND		mg/kg	85.1	38.4	100	10/26/25 09:58	10/31/25 23:00	EPA 3050B	1,6010D	EFM
Vanadium, Total	80.5		mg/kg	8.51	1.28	20	10/26/25 09:58	10/31/25 20:25	EPA 3050B	1,6010D	MRP
Zinc, Total	399		mg/kg	42.5	5.16	20	10/26/25 09:58	10/31/25 20:25	EPA 3050B	1,6010D	MRP
General Chemistry - Mansfield Lab											
Chromium, Trivalent	1380		mg/kg	8.51	7.22	1		10/31/25 20:25	NA	107,-	

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-45
Client ID: FROG-SS-122 (1.5-3.5)
Sample Location: CARLISLE, PA
Date Collected: 10/20/25 10:45
Date Received: 10/20/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4940		mg/kg	9.04	2.94	2	10/26/25 09:58	10/31/25 19:57	EPA 3050B	1,6010D	MRP
Antimony, Total	ND		mg/kg	4.52	3.48	2	10/26/25 09:58	10/31/25 19:57	EPA 3050B	1,6010D	MRP
Arsenic, Total	8.78		mg/kg	0.904	0.391	2	10/26/25 09:58	10/31/25 19:57	EPA 3050B	1,6010D	MRP
Barium, Total	87.7		mg/kg	0.904	0.096	2	10/26/25 09:58	10/31/25 19:57	EPA 3050B	1,6010D	MRP
Beryllium, Total	0.620		mg/kg	0.452	0.050	2	10/26/25 09:58	10/31/25 19:57	EPA 3050B	1,6010D	MRP
Cadmium, Total	0.136	J	mg/kg	0.904	0.050	2	10/26/25 09:58	10/31/25 19:57	EPA 3050B	1,6010D	MRP
Calcium, Total	4980		mg/kg	9.04	5.13	2	10/26/25 09:58	10/31/25 19:57	EPA 3050B	1,6010D	MRP
Chromium, Total	15.2		mg/kg	0.904	0.767	2	10/26/25 09:58	10/31/25 19:57	EPA 3050B	1,6010D	MRP
Cobalt, Total	12.5		mg/kg	1.81	0.224	2	10/26/25 09:58	10/31/25 19:57	EPA 3050B	1,6010D	MRP
Copper, Total	24.2		mg/kg	0.904	0.205	2	10/26/25 09:58	10/31/25 19:57	EPA 3050B	1,6010D	MRP
Iron, Total	25500		mg/kg	4.52	0.950	2	10/26/25 09:58	10/31/25 19:57	EPA 3050B	1,6010D	MRP
Lead, Total	24.2		mg/kg	4.52	0.215	2	10/26/25 09:58	10/31/25 19:57	EPA 3050B	1,6010D	MRP
Magnesium, Total	746		mg/kg	9.04	1.47	2	10/26/25 09:58	10/31/25 19:57	EPA 3050B	1,6010D	MRP
Manganese, Total	572		mg/kg	0.904	0.485	2	10/26/25 09:58	10/31/25 19:57	EPA 3050B	1,6010D	MRP
Mercury, Total	ND		mg/kg	0.090	0.059	1	10/26/25 10:30	10/27/25 11:54	EPA 7471B	1,7471B	JWN
Nickel, Total	12.9		mg/kg	2.26	0.731	2	10/26/25 09:58	10/31/25 19:57	EPA 3050B	1,6010D	MRP
Potassium, Total	540		mg/kg	226	45.8	2	10/26/25 09:58	10/31/25 19:57	EPA 3050B	1,6010D	MRP
Selenium, Total	ND		mg/kg	1.81	0.298	2	10/26/25 09:58	10/31/25 19:57	EPA 3050B	1,6010D	MRP
Silver, Total	ND		mg/kg	0.452	0.270	2	10/26/25 09:58	10/31/25 19:57	EPA 3050B	1,6010D	MRP
Sodium, Total	ND		mg/kg	181	95.9	2	10/26/25 09:58	10/31/25 19:57	EPA 3050B	1,6010D	MRP
Thallium, Total	ND		mg/kg	1.81	0.816	2	10/26/25 09:58	10/31/25 19:57	EPA 3050B	1,6010D	MRP
Vanadium, Total	27.1		mg/kg	0.904	0.136	2	10/26/25 09:58	10/31/25 19:57	EPA 3050B	1,6010D	MRP
Zinc, Total	17.8		mg/kg	4.52	0.548	2	10/26/25 09:58	10/31/25 19:57	EPA 3050B	1,6010D	MRP
General Chemistry - Mansfield Lab											
Chromium, Trivalent	14.3	J	mg/kg	0.948	0.767	1		10/31/25 19:57	NA	107,-	

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-46
Client ID: FROG-SS-122 (30-32)
Sample Location: CARLISLE, PA
Date Collected: 10/20/25 11:00
Date Received: 10/20/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 67%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7760		mg/kg	11.7	3.81	2	10/27/25 23:51	10/29/25 20:35	EPA 3050B	1,6010D	JMF
Antimony, Total	ND		mg/kg	5.87	4.52	2	10/27/25 23:51	10/29/25 20:35	EPA 3050B	1,6010D	JMF
Arsenic, Total	14.0		mg/kg	1.17	0.507	2	10/27/25 23:51	10/29/25 20:35	EPA 3050B	1,6010D	JMF
Barium, Total	324		mg/kg	1.17	0.124	2	10/27/25 23:51	10/29/25 20:35	EPA 3050B	1,6010D	JMF
Beryllium, Total	2.00		mg/kg	0.587	0.065	2	10/27/25 23:51	10/29/25 20:35	EPA 3050B	1,6010D	JMF
Cadmium, Total	ND		mg/kg	1.17	0.065	2	10/27/25 23:51	10/29/25 20:35	EPA 3050B	1,6010D	JMF
Calcium, Total	29500		mg/kg	11.7	6.65	2	10/27/25 23:51	10/29/25 20:35	EPA 3050B	1,6010D	JMF
Chromium, Total	20.5		mg/kg	1.17	0.995	2	10/27/25 23:51	10/29/25 20:35	EPA 3050B	1,6010D	JMF
Cobalt, Total	18.2		mg/kg	2.35	0.291	2	10/27/25 23:51	10/29/25 20:35	EPA 3050B	1,6010D	JMF
Copper, Total	33.6		mg/kg	1.17	0.266	2	10/27/25 23:51	10/29/25 20:35	EPA 3050B	1,6010D	JMF
Iron, Total	32300		mg/kg	5.87	1.23	2	10/27/25 23:51	10/29/25 20:35	EPA 3050B	1,6010D	JMF
Lead, Total	22.4		mg/kg	5.87	0.279	2	10/27/25 23:51	10/29/25 20:35	EPA 3050B	1,6010D	JMF
Magnesium, Total	1140		mg/kg	11.7	1.91	2	10/27/25 23:51	10/29/25 20:35	EPA 3050B	1,6010D	JMF
Manganese, Total	2510		mg/kg	1.17	0.629	2	10/27/25 23:51	10/29/25 20:35	EPA 3050B	1,6010D	JMF
Mercury, Total	0.142		mg/kg	0.117	0.076	1	10/28/25 03:44	10/29/25 07:42	EPA 7471B	1,7471B	JWN
Nickel, Total	45.3		mg/kg	2.93	0.948	2	10/27/25 23:51	10/29/25 20:35	EPA 3050B	1,6010D	JMF
Potassium, Total	505		mg/kg	293	59.5	2	10/27/25 23:51	10/29/25 20:35	EPA 3050B	1,6010D	JMF
Selenium, Total	ND		mg/kg	2.35	0.386	2	10/27/25 23:51	10/29/25 20:35	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.587	0.350	2	10/27/25 23:51	10/29/25 20:35	EPA 3050B	1,6010D	JMF
Sodium, Total	ND		mg/kg	235	124.	2	10/27/25 23:51	10/29/25 20:35	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	2.35	1.06	2	10/27/25 23:51	10/29/25 20:35	EPA 3050B	1,6010D	JMF
Vanadium, Total	46.9		mg/kg	1.17	0.177	2	10/27/25 23:51	10/29/25 20:35	EPA 3050B	1,6010D	JMF
Zinc, Total	51.4		mg/kg	5.87	0.711	2	10/27/25 23:51	10/29/25 20:35	EPA 3050B	1,6010D	JMF
General Chemistry - Mansfield Lab											
Chromium, Trivalent	20.1	J	mg/kg	1.19	0.995	1		10/29/25 20:35	NA	107,-	

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-47
Client ID: FROG-SS-123 (1-3)
Sample Location: CARLISLE, PA
Date Collected: 10/20/25 12:35
Date Received: 10/20/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	11200		mg/kg	8.96	2.91	2	10/26/25 09:58	10/31/25 20:51	EPA 3050B	1,6010D	MRP
Antimony, Total	ND		mg/kg	4.48	3.45	2	10/26/25 09:58	10/31/25 20:51	EPA 3050B	1,6010D	MRP
Arsenic, Total	7.02		mg/kg	0.896	0.387	2	10/26/25 09:58	10/31/25 20:51	EPA 3050B	1,6010D	MRP
Barium, Total	95.3		mg/kg	0.896	0.095	2	10/26/25 09:58	10/31/25 20:51	EPA 3050B	1,6010D	MRP
Beryllium, Total	0.956		mg/kg	0.448	0.049	2	10/26/25 09:58	10/31/25 20:51	EPA 3050B	1,6010D	MRP
Cadmium, Total	0.055	J	mg/kg	0.896	0.049	2	10/26/25 09:58	10/31/25 20:51	EPA 3050B	1,6010D	MRP
Calcium, Total	3800		mg/kg	8.96	5.08	2	10/26/25 09:58	10/31/25 20:51	EPA 3050B	1,6010D	MRP
Chromium, Total	24.8		mg/kg	0.896	0.760	2	10/26/25 09:58	10/31/25 20:51	EPA 3050B	1,6010D	MRP
Cobalt, Total	15.4		mg/kg	1.79	0.222	2	10/26/25 09:58	10/31/25 20:51	EPA 3050B	1,6010D	MRP
Copper, Total	10.1		mg/kg	0.896	0.203	2	10/26/25 09:58	10/31/25 20:51	EPA 3050B	1,6010D	MRP
Iron, Total	22500		mg/kg	11.2	2.35	5	10/26/25 09:58	10/31/25 22:02	EPA 3050B	1,6010D	EFM
Lead, Total	28.5		mg/kg	4.48	0.213	2	10/26/25 09:58	10/31/25 20:51	EPA 3050B	1,6010D	MRP
Magnesium, Total	1560		mg/kg	8.96	1.46	2	10/26/25 09:58	10/31/25 20:51	EPA 3050B	1,6010D	MRP
Manganese, Total	989		mg/kg	0.896	0.480	2	10/26/25 09:58	10/31/25 20:51	EPA 3050B	1,6010D	MRP
Mercury, Total	0.093		mg/kg	0.086	0.056	1	10/26/25 10:30	10/27/25 11:58	EPA 7471B	1,7471B	JWN
Nickel, Total	13.1		mg/kg	2.24	0.724	2	10/26/25 09:58	10/31/25 20:51	EPA 3050B	1,6010D	MRP
Potassium, Total	637		mg/kg	224	45.4	2	10/26/25 09:58	10/31/25 20:51	EPA 3050B	1,6010D	MRP
Selenium, Total	ND		mg/kg	1.79	0.295	2	10/26/25 09:58	10/31/25 20:51	EPA 3050B	1,6010D	MRP
Silver, Total	ND		mg/kg	0.448	0.267	2	10/26/25 09:58	10/31/25 20:51	EPA 3050B	1,6010D	MRP
Sodium, Total	ND		mg/kg	179	95.0	2	10/26/25 09:58	10/31/25 20:51	EPA 3050B	1,6010D	MRP
Thallium, Total	ND		mg/kg	1.79	0.808	2	10/26/25 09:58	10/31/25 20:51	EPA 3050B	1,6010D	MRP
Vanadium, Total	29.9		mg/kg	0.896	0.135	2	10/26/25 09:58	10/31/25 20:51	EPA 3050B	1,6010D	MRP
Zinc, Total	32.7		mg/kg	4.48	0.543	2	10/26/25 09:58	10/31/25 20:51	EPA 3050B	1,6010D	MRP
General Chemistry - Mansfield Lab											
Chromium, Trivalent	23.9	J	mg/kg	0.944	0.760	1		10/31/25 20:51	NA	107,-	

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-48
Client ID: FROG-SS-123 (17-19)
Sample Location: CARLISLE, PA
Date Collected: 10/20/25 12:42
Date Received: 10/20/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	9940		mg/kg	23.8	7.73	5	10/26/25 09:58	10/31/25 20:54	EPA 3050B	1,6010D	MRP
Antimony, Total	ND		mg/kg	11.9	9.16	5	10/26/25 09:58	10/31/25 20:54	EPA 3050B	1,6010D	MRP
Arsenic, Total	13.8		mg/kg	2.38	1.03	5	10/26/25 09:58	10/31/25 20:54	EPA 3050B	1,6010D	MRP
Barium, Total	35.1		mg/kg	2.38	0.252	5	10/26/25 09:58	10/31/25 20:54	EPA 3050B	1,6010D	MRP
Beryllium, Total	0.620	J	mg/kg	1.19	0.131	5	10/26/25 09:58	10/31/25 20:54	EPA 3050B	1,6010D	MRP
Cadmium, Total	ND		mg/kg	2.38	0.131	5	10/26/25 09:58	10/31/25 20:54	EPA 3050B	1,6010D	MRP
Calcium, Total	2200		mg/kg	23.8	13.5	5	10/26/25 09:58	10/31/25 20:54	EPA 3050B	1,6010D	MRP
Chromium, Total	50.9		mg/kg	2.38	2.02	5	10/26/25 09:58	10/31/25 20:54	EPA 3050B	1,6010D	MRP
Cobalt, Total	7.33		mg/kg	4.76	0.590	5	10/26/25 09:58	10/31/25 20:54	EPA 3050B	1,6010D	MRP
Copper, Total	24.7		mg/kg	2.38	0.540	5	10/26/25 09:58	10/31/25 20:54	EPA 3050B	1,6010D	MRP
Iron, Total	41300		mg/kg	11.9	2.50	5	10/26/25 09:58	10/31/25 22:29	EPA 3050B	1,6010D	EFM
Lead, Total	17.5		mg/kg	11.9	0.566	5	10/26/25 09:58	10/31/25 20:54	EPA 3050B	1,6010D	MRP
Magnesium, Total	357		mg/kg	23.8	3.88	5	10/26/25 09:58	10/31/25 20:54	EPA 3050B	1,6010D	MRP
Manganese, Total	252		mg/kg	2.38	1.27	5	10/26/25 09:58	10/31/25 20:54	EPA 3050B	1,6010D	MRP
Mercury, Total	ND		mg/kg	0.100	0.066	1	10/26/25 10:30	10/27/25 12:01	EPA 7471B	1,7471B	JWN
Nickel, Total	14.5		mg/kg	5.94	1.92	5	10/26/25 09:58	10/31/25 20:54	EPA 3050B	1,6010D	MRP
Potassium, Total	323	J	mg/kg	594	120.	5	10/26/25 09:58	10/31/25 20:54	EPA 3050B	1,6010D	MRP
Selenium, Total	ND		mg/kg	4.76	0.782	5	10/26/25 09:58	10/31/25 20:54	EPA 3050B	1,6010D	MRP
Silver, Total	ND		mg/kg	1.19	0.709	5	10/26/25 09:58	10/31/25 20:54	EPA 3050B	1,6010D	MRP
Sodium, Total	ND		mg/kg	476	252.	5	10/26/25 09:58	10/31/25 20:54	EPA 3050B	1,6010D	MRP
Thallium, Total	ND		mg/kg	4.76	2.14	5	10/26/25 09:58	10/31/25 20:54	EPA 3050B	1,6010D	MRP
Vanadium, Total	81.4		mg/kg	2.38	0.359	5	10/26/25 09:58	10/31/25 20:54	EPA 3050B	1,6010D	MRP
Zinc, Total	35.2		mg/kg	11.9	1.44	5	10/26/25 09:58	10/31/25 20:54	EPA 3050B	1,6010D	MRP
General Chemistry - Mansfield Lab											
Chromium, Trivalent	50.5	J	mg/kg	2.38	2.02	1		10/31/25 20:54	NA	107,-	

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-49
Client ID: FROG-SS-DUP-104
Sample Location: CARLISLE, PA
Date Collected: 10/20/25 00:00
Date Received: 10/20/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	9520		mg/kg	23.6	7.69	5	10/26/25 09:58	10/31/25 20:29	EPA 3050B	1,6010D	MRP
Antimony, Total	ND		mg/kg	11.8	9.11	5	10/26/25 09:58	10/31/25 20:29	EPA 3050B	1,6010D	MRP
Arsenic, Total	14.3		mg/kg	2.36	1.02	5	10/26/25 09:58	10/31/25 20:29	EPA 3050B	1,6010D	MRP
Barium, Total	33.4		mg/kg	2.36	0.251	5	10/26/25 09:58	10/31/25 20:29	EPA 3050B	1,6010D	MRP
Beryllium, Total	0.584	J	mg/kg	1.18	0.130	5	10/26/25 09:58	10/31/25 20:29	EPA 3050B	1,6010D	MRP
Cadmium, Total	ND		mg/kg	2.36	0.130	5	10/26/25 09:58	10/31/25 20:29	EPA 3050B	1,6010D	MRP
Calcium, Total	2420		mg/kg	23.6	13.4	5	10/26/25 09:58	10/31/25 20:29	EPA 3050B	1,6010D	MRP
Chromium, Total	70.9		mg/kg	2.36	2.00	5	10/26/25 09:58	10/31/25 20:29	EPA 3050B	1,6010D	MRP
Cobalt, Total	7.02		mg/kg	4.73	0.587	5	10/26/25 09:58	10/31/25 20:29	EPA 3050B	1,6010D	MRP
Copper, Total	23.0		mg/kg	2.36	0.537	5	10/26/25 09:58	10/31/25 20:29	EPA 3050B	1,6010D	MRP
Iron, Total	40800		mg/kg	11.8	2.48	5	10/26/25 09:58	10/31/25 22:34	EPA 3050B	1,6010D	EFM
Lead, Total	17.4		mg/kg	11.8	0.563	5	10/26/25 09:58	10/31/25 20:29	EPA 3050B	1,6010D	MRP
Magnesium, Total	347		mg/kg	23.6	3.86	5	10/26/25 09:58	10/31/25 20:29	EPA 3050B	1,6010D	MRP
Manganese, Total	260		mg/kg	2.36	1.27	5	10/26/25 09:58	10/31/25 20:29	EPA 3050B	1,6010D	MRP
Mercury, Total	ND		mg/kg	0.096	0.063	1	10/26/25 10:30	10/27/25 12:11	EPA 7471B	1,7471B	JWN
Nickel, Total	13.7		mg/kg	5.91	1.91	5	10/26/25 09:58	10/31/25 20:29	EPA 3050B	1,6010D	MRP
Potassium, Total	311	J	mg/kg	591	120.	5	10/26/25 09:58	10/31/25 20:29	EPA 3050B	1,6010D	MRP
Selenium, Total	ND		mg/kg	4.73	0.778	5	10/26/25 09:58	10/31/25 20:29	EPA 3050B	1,6010D	MRP
Silver, Total	ND		mg/kg	1.18	0.705	5	10/26/25 09:58	10/31/25 20:29	EPA 3050B	1,6010D	MRP
Sodium, Total	ND		mg/kg	473	251.	5	10/26/25 09:58	10/31/25 20:29	EPA 3050B	1,6010D	MRP
Thallium, Total	ND		mg/kg	4.73	2.13	5	10/26/25 09:58	10/31/25 20:29	EPA 3050B	1,6010D	MRP
Vanadium, Total	78.7		mg/kg	2.36	0.357	5	10/26/25 09:58	10/31/25 20:29	EPA 3050B	1,6010D	MRP
Zinc, Total	34.5		mg/kg	11.8	1.43	5	10/26/25 09:58	10/31/25 20:29	EPA 3050B	1,6010D	MRP
General Chemistry - Mansfield Lab											
Chromium, Trivalent	70.6	J	mg/kg	2.36	2.00	1		10/31/25 20:29	NA	107,-	

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-50
Client ID: FROG-SS-FB-104
Sample Location: CARLISLE, PA
Date Collected: 10/20/25 11:47
Date Received: 10/20/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.100	0.0318	1	10/23/25 15:00	10/30/25 21:39	EPA 3005A	1,6010D	JMF
Antimony, Total	ND		mg/l	0.0500	0.0071	1	10/23/25 15:00	10/30/25 21:39	EPA 3005A	1,6010D	JMF
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	10/23/25 15:00	10/30/25 21:39	EPA 3005A	1,6010D	JMF
Barium, Total	ND		mg/l	0.0100	0.0021	1	10/23/25 15:00	10/30/25 21:39	EPA 3005A	1,6010D	JMF
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	10/23/25 15:00	10/30/25 21:39	EPA 3005A	1,6010D	JMF
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	10/23/25 15:00	10/30/25 21:39	EPA 3005A	1,6010D	JMF
Calcium, Total	0.0424	J	mg/l	0.100	0.0350	1	10/23/25 15:00	10/30/25 21:39	EPA 3005A	1,6010D	JMF
Chromium, Total	ND		mg/l	0.0100	0.0021	1	10/23/25 15:00	10/30/25 21:39	EPA 3005A	1,6010D	JMF
Cobalt, Total	ND		mg/l	0.0200	0.0017	1	10/23/25 15:00	10/30/25 21:39	EPA 3005A	1,6010D	JMF
Copper, Total	ND		mg/l	0.0100	0.0022	1	10/23/25 15:00	10/30/25 21:39	EPA 3005A	1,6010D	JMF
Iron, Total	ND		mg/l	0.0500	0.0090	1	10/23/25 15:00	10/30/25 21:39	EPA 3005A	1,6010D	JMF
Lead, Total	ND		mg/l	0.0100	0.0027	1	10/23/25 15:00	10/30/25 21:39	EPA 3005A	1,6010D	JMF
Magnesium, Total	ND		mg/l	0.100	0.0153	1	10/23/25 15:00	10/30/25 21:39	EPA 3005A	1,6010D	JMF
Manganese, Total	ND		mg/l	0.0100	0.0016	1	10/23/25 15:00	10/30/25 21:39	EPA 3005A	1,6010D	JMF
Mercury, Total	0.00009	J	mg/l	0.00020	0.00009	1	10/23/25 15:35	10/25/25 14:20	EPA 7470A	1,7470A	CME
Nickel, Total	ND		mg/l	0.0250	0.0024	1	10/23/25 15:00	10/30/25 21:39	EPA 3005A	1,6010D	JMF
Potassium, Total	ND		mg/l	2.50	0.237	1	10/23/25 15:00	10/30/25 21:39	EPA 3005A	1,6010D	JMF
Selenium, Total	ND		mg/l	0.0100	0.0035	1	10/23/25 15:00	10/30/25 21:39	EPA 3005A	1,6010D	JMF
Silver, Total	ND		mg/l	0.0070	0.0028	1	10/23/25 15:00	10/30/25 21:39	EPA 3005A	1,6010D	JMF
Sodium, Total	ND		mg/l	2.00	0.120	1	10/23/25 15:00	10/30/25 21:39	EPA 3005A	1,6010D	JMF
Thallium, Total	ND		mg/l	0.0200	0.0025	1	10/23/25 15:00	10/30/25 21:39	EPA 3005A	1,6010D	JMF
Vanadium, Total	ND		mg/l	0.0100	0.0020	1	10/23/25 15:00	10/30/25 21:39	EPA 3005A	1,6010D	JMF
Zinc, Total	ND		mg/l	0.0500	0.0021	1	10/23/25 15:00	10/30/25 21:39	EPA 3005A	1,6010D	JMF
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		10/30/25 21:39	NA	107,-	

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-51
Client ID: FROG-SS-124 (FLOOR)
Sample Location: CARLISLE, PA
Date Collected: 10/21/25 10:15
Date Received: 10/21/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2330		mg/kg	40.3	13.1	10	10/26/25 09:58	10/31/25 20:36	EPA 3050B	1,6010D	MRP
Antimony, Total	ND		mg/kg	20.1	15.5	10	10/26/25 09:58	10/31/25 20:36	EPA 3050B	1,6010D	MRP
Arsenic, Total	8.43		mg/kg	4.03	1.74	10	10/26/25 09:58	10/31/25 20:36	EPA 3050B	1,6010D	MRP
Barium, Total	323		mg/kg	4.03	0.427	10	10/26/25 09:58	10/31/25 20:36	EPA 3050B	1,6010D	MRP
Beryllium, Total	ND		mg/kg	2.01	0.222	10	10/26/25 09:58	10/31/25 20:36	EPA 3050B	1,6010D	MRP
Cadmium, Total	0.867	J	mg/kg	4.03	0.222	10	10/26/25 09:58	10/31/25 20:36	EPA 3050B	1,6010D	MRP
Calcium, Total	22200		mg/kg	40.3	22.8	10	10/26/25 09:58	10/31/25 20:36	EPA 3050B	1,6010D	MRP
Chromium, Total	420		mg/kg	4.03	3.42	10	10/26/25 09:58	10/31/25 20:36	EPA 3050B	1,6010D	MRP
Cobalt, Total	56.6		mg/kg	8.05	0.999	10	10/26/25 09:58	10/31/25 20:36	EPA 3050B	1,6010D	MRP
Copper, Total	559		mg/kg	4.03	0.914	10	10/26/25 09:58	10/31/25 20:36	EPA 3050B	1,6010D	MRP
Iron, Total	77100		mg/kg	40.3	8.46	20	10/26/25 09:58	10/31/25 22:39	EPA 3050B	1,6010D	EFM
Lead, Total	47.5		mg/kg	20.1	0.958	10	10/26/25 09:58	10/31/25 20:36	EPA 3050B	1,6010D	MRP
Magnesium, Total	135000		mg/kg	40.3	6.56	10	10/26/25 09:58	10/31/25 20:36	EPA 3050B	1,6010D	MRP
Manganese, Total	6420		mg/kg	4.03	2.16	10	10/26/25 09:58	10/31/25 20:36	EPA 3050B	1,6010D	MRP
Mercury, Total	ND		mg/kg	0.083	0.054	1	10/26/25 10:30	10/27/25 12:14	EPA 7471B	1,7471B	JWN
Nickel, Total	1250		mg/kg	10.1	3.25	10	10/26/25 09:58	10/31/25 20:36	EPA 3050B	1,6010D	MRP
Potassium, Total	431	J	mg/kg	1010	204.	10	10/26/25 09:58	10/31/25 20:36	EPA 3050B	1,6010D	MRP
Selenium, Total	ND		mg/kg	8.05	1.32	10	10/26/25 09:58	10/31/25 20:36	EPA 3050B	1,6010D	MRP
Silver, Total	1.36	J	mg/kg	2.01	1.20	10	10/26/25 09:58	10/31/25 20:36	EPA 3050B	1,6010D	MRP
Sodium, Total	2950		mg/kg	805	427.	10	10/26/25 09:58	10/31/25 20:36	EPA 3050B	1,6010D	MRP
Thallium, Total	ND		mg/kg	8.05	3.63	10	10/26/25 09:58	10/31/25 20:36	EPA 3050B	1,6010D	MRP
Vanadium, Total	22.3		mg/kg	4.03	0.608	10	10/26/25 09:58	10/31/25 20:36	EPA 3050B	1,6010D	MRP
Zinc, Total	299		mg/kg	20.1	2.44	10	10/26/25 09:58	10/31/25 20:36	EPA 3050B	1,6010D	MRP
General Chemistry - Mansfield Lab											
Chromium, Trivalent	420	J	mg/kg	4.03	3.42	1		10/31/25 20:36	NA	107,-	

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-52
Client ID: FROG-SS-125 (FLOOR)
Sample Location: CARLISLE, PA
Date Collected: 10/21/25 11:11
Date Received: 10/21/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 99%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2150		mg/kg	39.1	12.7	10	10/28/25 23:07	10/30/25 18:43	EPA 3050B	1,6010D	EFM
Antimony, Total	ND		mg/kg	19.6	15.1	10	10/28/25 23:07	10/30/25 18:43	EPA 3050B	1,6010D	EFM
Arsenic, Total	6.01		mg/kg	3.91	1.69	10	10/28/25 23:07	10/30/25 18:43	EPA 3050B	1,6010D	EFM
Barium, Total	252		mg/kg	3.91	0.415	10	10/28/25 23:07	10/30/25 18:43	EPA 3050B	1,6010D	EFM
Beryllium, Total	ND		mg/kg	1.96	0.215	10	10/28/25 23:07	10/30/25 18:43	EPA 3050B	1,6010D	EFM
Cadmium, Total	0.268	J	mg/kg	3.91	0.215	10	10/28/25 23:07	10/30/25 18:43	EPA 3050B	1,6010D	EFM
Calcium, Total	2180		mg/kg	39.1	22.2	10	10/28/25 23:07	10/30/25 18:43	EPA 3050B	1,6010D	EFM
Chromium, Total	244		mg/kg	3.91	3.32	10	10/28/25 23:07	10/30/25 18:43	EPA 3050B	1,6010D	EFM
Cobalt, Total	50.1		mg/kg	7.83	0.971	10	10/28/25 23:07	10/30/25 18:43	EPA 3050B	1,6010D	EFM
Copper, Total	125		mg/kg	3.91	0.888	10	10/28/25 23:07	10/30/25 18:43	EPA 3050B	1,6010D	EFM
Iron, Total	41600		mg/kg	19.6	4.11	10	10/28/25 23:07	10/30/25 18:43	EPA 3050B	1,6010D	EFM
Lead, Total	17.6	J	mg/kg	19.6	0.932	10	10/28/25 23:07	10/30/25 18:43	EPA 3050B	1,6010D	EFM
Magnesium, Total	121000		mg/kg	39.1	6.38	10	10/28/25 23:07	10/30/25 18:43	EPA 3050B	1,6010D	EFM
Manganese, Total	6430		mg/kg	3.91	2.10	10	10/28/25 23:07	10/30/25 18:43	EPA 3050B	1,6010D	EFM
Mercury, Total	ND		mg/kg	0.065	0.043	1	10/28/25 23:10	10/30/25 09:02	EPA 7471B	1,7471B	RDB
Nickel, Total	1130		mg/kg	9.78	3.16	10	10/28/25 23:07	10/30/25 18:43	EPA 3050B	1,6010D	EFM
Potassium, Total	306	J	mg/kg	978	198.	10	10/28/25 23:07	10/30/25 18:43	EPA 3050B	1,6010D	EFM
Selenium, Total	ND		mg/kg	7.83	1.29	10	10/28/25 23:07	10/30/25 18:43	EPA 3050B	1,6010D	EFM
Silver, Total	ND		mg/kg	1.96	1.17	10	10/28/25 23:07	10/30/25 18:43	EPA 3050B	1,6010D	EFM
Sodium, Total	4780		mg/kg	783	415.	10	10/28/25 23:07	10/30/25 18:43	EPA 3050B	1,6010D	EFM
Thallium, Total	ND		mg/kg	7.83	3.53	10	10/28/25 23:07	10/30/25 18:43	EPA 3050B	1,6010D	EFM
Vanadium, Total	11.0		mg/kg	3.91	0.591	10	10/28/25 23:07	10/30/25 18:43	EPA 3050B	1,6010D	EFM
Zinc, Total	112		mg/kg	19.6	2.37	10	10/28/25 23:07	10/30/25 18:43	EPA 3050B	1,6010D	EFM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	244	J	mg/kg	3.91	3.32	1		10/30/25 18:43	NA	107,-	

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-53
Client ID: FROG-SS-126 (FLOOR)
Sample Location: CARLISLE, PA
Date Collected: 10/21/25 12:30
Date Received: 10/21/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 99%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4660		mg/kg	38.4	12.5	10	10/26/25 09:58	10/31/25 20:40	EPA 3050B	1,6010D	MRP
Antimony, Total	ND		mg/kg	19.2	14.8	10	10/26/25 09:58	10/31/25 20:40	EPA 3050B	1,6010D	MRP
Arsenic, Total	9.61		mg/kg	3.84	1.66	10	10/26/25 09:58	10/31/25 20:40	EPA 3050B	1,6010D	MRP
Barium, Total	466		mg/kg	3.84	0.407	10	10/26/25 09:58	10/31/25 20:40	EPA 3050B	1,6010D	MRP
Beryllium, Total	ND		mg/kg	1.92	0.211	10	10/26/25 09:58	10/31/25 20:40	EPA 3050B	1,6010D	MRP
Cadmium, Total	0.961	J	mg/kg	3.84	0.211	10	10/26/25 09:58	10/31/25 20:40	EPA 3050B	1,6010D	MRP
Calcium, Total	17100		mg/kg	38.4	21.8	10	10/26/25 09:58	10/31/25 20:40	EPA 3050B	1,6010D	MRP
Chromium, Total	676		mg/kg	3.84	3.26	10	10/26/25 09:58	10/31/25 20:40	EPA 3050B	1,6010D	MRP
Cobalt, Total	69.9		mg/kg	7.69	0.953	10	10/26/25 09:58	10/31/25 20:40	EPA 3050B	1,6010D	MRP
Copper, Total	404		mg/kg	3.84	0.872	10	10/26/25 09:58	10/31/25 20:40	EPA 3050B	1,6010D	MRP
Iron, Total	99900		mg/kg	96.1	20.2	50	10/26/25 09:58	10/31/25 22:44	EPA 3050B	1,6010D	EFM
Lead, Total	93.8		mg/kg	19.2	0.915	10	10/26/25 09:58	10/31/25 20:40	EPA 3050B	1,6010D	MRP
Magnesium, Total	148000		mg/kg	38.4	6.26	10	10/26/25 09:58	10/31/25 20:40	EPA 3050B	1,6010D	MRP
Manganese, Total	20300		mg/kg	3.84	2.06	10	10/26/25 09:58	10/31/25 20:40	EPA 3050B	1,6010D	MRP
Mercury, Total	ND		mg/kg	0.075	0.049	1	10/26/25 10:30	10/27/25 12:17	EPA 7471B	1,7471B	JWN
Nickel, Total	1270		mg/kg	9.61	3.10	10	10/26/25 09:58	10/31/25 20:40	EPA 3050B	1,6010D	MRP
Potassium, Total	421	J	mg/kg	961	195.	10	10/26/25 09:58	10/31/25 20:40	EPA 3050B	1,6010D	MRP
Selenium, Total	ND		mg/kg	7.69	1.26	10	10/26/25 09:58	10/31/25 20:40	EPA 3050B	1,6010D	MRP
Silver, Total	ND		mg/kg	1.92	1.14	10	10/26/25 09:58	10/31/25 20:40	EPA 3050B	1,6010D	MRP
Sodium, Total	2810		mg/kg	769	407.	10	10/26/25 09:58	10/31/25 20:40	EPA 3050B	1,6010D	MRP
Thallium, Total	ND		mg/kg	38.4	17.3	50	10/26/25 09:58	10/31/25 22:44	EPA 3050B	1,6010D	EFM
Vanadium, Total	27.7		mg/kg	3.84	0.580	10	10/26/25 09:58	10/31/25 20:40	EPA 3050B	1,6010D	MRP
Zinc, Total	296		mg/kg	19.2	2.33	10	10/26/25 09:58	10/31/25 20:40	EPA 3050B	1,6010D	MRP
General Chemistry - Mansfield Lab											
Chromium, Trivalent	676		mg/kg	3.84	3.26	1		10/31/25 20:40	NA	107,-	

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-54
Client ID: FROG-SS-127 (FLOOR)
Sample Location: CARLISLE, PA
Date Collected: 10/21/25 13:11
Date Received: 10/21/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 99%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4490		mg/kg	39.0	12.6	10	10/26/25 09:58	10/31/25 20:43	EPA 3050B	1,6010D	MRP
Antimony, Total	ND		mg/kg	19.5	15.0	10	10/26/25 09:58	10/31/25 20:43	EPA 3050B	1,6010D	MRP
Arsenic, Total	14.3		mg/kg	3.90	1.68	10	10/26/25 09:58	10/31/25 20:43	EPA 3050B	1,6010D	MRP
Barium, Total	152		mg/kg	3.90	0.413	10	10/26/25 09:58	10/31/25 20:43	EPA 3050B	1,6010D	MRP
Beryllium, Total	0.280	J	mg/kg	1.95	0.214	10	10/26/25 09:58	10/31/25 20:43	EPA 3050B	1,6010D	MRP
Cadmium, Total	1.06	J	mg/kg	3.90	0.214	10	10/26/25 09:58	10/31/25 20:43	EPA 3050B	1,6010D	MRP
Calcium, Total	20000		mg/kg	39.0	22.1	10	10/26/25 09:58	10/31/25 20:43	EPA 3050B	1,6010D	MRP
Chromium, Total	1300		mg/kg	3.90	3.30	10	10/26/25 09:58	10/31/25 20:43	EPA 3050B	1,6010D	MRP
Cobalt, Total	44.7		mg/kg	7.79	0.966	10	10/26/25 09:58	10/31/25 20:43	EPA 3050B	1,6010D	MRP
Copper, Total	1300		mg/kg	3.90	0.884	10	10/26/25 09:58	10/31/25 20:43	EPA 3050B	1,6010D	MRP
Iron, Total	158000		mg/kg	97.4	20.4	50	10/26/25 09:58	10/31/25 22:50	EPA 3050B	1,6010D	EFM
Lead, Total	146		mg/kg	19.5	0.927	10	10/26/25 09:58	10/31/25 20:43	EPA 3050B	1,6010D	MRP
Magnesium, Total	54200		mg/kg	39.0	6.35	10	10/26/25 09:58	10/31/25 20:43	EPA 3050B	1,6010D	MRP
Manganese, Total	30200		mg/kg	3.90	2.09	10	10/26/25 09:58	10/31/25 20:43	EPA 3050B	1,6010D	MRP
Mercury, Total	ND		mg/kg	0.072	0.047	1	10/26/25 10:30	10/27/25 12:21	EPA 7471B	1,7471B	JWN
Nickel, Total	620		mg/kg	9.74	3.15	10	10/26/25 09:58	10/31/25 20:43	EPA 3050B	1,6010D	MRP
Potassium, Total	485	J	mg/kg	974	197.	10	10/26/25 09:58	10/31/25 20:43	EPA 3050B	1,6010D	MRP
Selenium, Total	ND		mg/kg	7.79	1.28	10	10/26/25 09:58	10/31/25 20:43	EPA 3050B	1,6010D	MRP
Silver, Total	ND		mg/kg	1.95	1.16	10	10/26/25 09:58	10/31/25 20:43	EPA 3050B	1,6010D	MRP
Sodium, Total	579	J	mg/kg	779	413.	10	10/26/25 09:58	10/31/25 20:43	EPA 3050B	1,6010D	MRP
Thallium, Total	ND		mg/kg	39.0	17.6	50	10/26/25 09:58	10/31/25 22:50	EPA 3050B	1,6010D	EFM
Vanadium, Total	60.4		mg/kg	3.90	0.588	10	10/26/25 09:58	10/31/25 20:43	EPA 3050B	1,6010D	MRP
Zinc, Total	127		mg/kg	19.5	2.36	10	10/26/25 09:58	10/31/25 20:43	EPA 3050B	1,6010D	MRP
General Chemistry - Mansfield Lab											
Chromium, Trivalent	1300	J	mg/kg	3.90	3.30	1		10/31/25 20:43	NA	107,-	

Project Name: FROG SWITCH PHASE II
Lab Number: L2565410
Project Number: Not Specified
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-56
Client ID: FROG-SS-DUP-105
Sample Location: CARLISLE, PA
Date Collected: 10/21/25 00:00
Date Received: 10/21/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 99%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3110		mg/kg	39.7	12.9	10	10/26/25 09:58	10/31/25 20:47	EPA 3050B	1,6010D	MRP
Antimony, Total	ND		mg/kg	19.8	15.3	10	10/26/25 09:58	10/31/25 20:47	EPA 3050B	1,6010D	MRP
Arsenic, Total	9.26		mg/kg	3.97	1.71	10	10/26/25 09:58	10/31/25 20:47	EPA 3050B	1,6010D	MRP
Barium, Total	341		mg/kg	3.97	0.421	10	10/26/25 09:58	10/31/25 20:47	EPA 3050B	1,6010D	MRP
Beryllium, Total	ND		mg/kg	1.98	0.218	10	10/26/25 09:58	10/31/25 20:47	EPA 3050B	1,6010D	MRP
Cadmium, Total	0.649	J	mg/kg	3.97	0.218	10	10/26/25 09:58	10/31/25 20:47	EPA 3050B	1,6010D	MRP
Calcium, Total	4830		mg/kg	39.7	22.5	10	10/26/25 09:58	10/31/25 20:47	EPA 3050B	1,6010D	MRP
Chromium, Total	506		mg/kg	3.97	3.37	10	10/26/25 09:58	10/31/25 20:47	EPA 3050B	1,6010D	MRP
Cobalt, Total	57.4		mg/kg	7.94	0.984	10	10/26/25 09:58	10/31/25 20:47	EPA 3050B	1,6010D	MRP
Copper, Total	297		mg/kg	3.97	0.901	10	10/26/25 09:58	10/31/25 20:47	EPA 3050B	1,6010D	MRP
Iron, Total	84400		mg/kg	39.7	8.34	20	10/26/25 09:58	10/31/25 22:55	EPA 3050B	1,6010D	EFM
Lead, Total	67.7		mg/kg	19.8	0.945	10	10/26/25 09:58	10/31/25 20:47	EPA 3050B	1,6010D	MRP
Magnesium, Total	124000		mg/kg	39.7	6.47	10	10/26/25 09:58	10/31/25 20:47	EPA 3050B	1,6010D	MRP
Manganese, Total	11700		mg/kg	3.97	2.13	10	10/26/25 09:58	10/31/25 20:47	EPA 3050B	1,6010D	MRP
Mercury, Total	ND		mg/kg	0.080	0.052	1	10/26/25 10:30	10/27/25 12:24	EPA 7471B	1,7471B	JWN
Nickel, Total	1110		mg/kg	9.92	3.21	10	10/26/25 09:58	10/31/25 20:47	EPA 3050B	1,6010D	MRP
Potassium, Total	266	J	mg/kg	992	201.	10	10/26/25 09:58	10/31/25 20:47	EPA 3050B	1,6010D	MRP
Selenium, Total	ND		mg/kg	7.94	1.31	10	10/26/25 09:58	10/31/25 20:47	EPA 3050B	1,6010D	MRP
Silver, Total	ND		mg/kg	1.98	1.18	10	10/26/25 09:58	10/31/25 20:47	EPA 3050B	1,6010D	MRP
Sodium, Total	1920		mg/kg	794	421.	10	10/26/25 09:58	10/31/25 20:47	EPA 3050B	1,6010D	MRP
Thallium, Total	ND		mg/kg	7.94	3.58	10	10/26/25 09:58	10/31/25 20:47	EPA 3050B	1,6010D	MRP
Vanadium, Total	20.0		mg/kg	3.97	0.599	10	10/26/25 09:58	10/31/25 20:47	EPA 3050B	1,6010D	MRP
Zinc, Total	205		mg/kg	19.8	2.40	10	10/26/25 09:58	10/31/25 20:47	EPA 3050B	1,6010D	MRP
General Chemistry - Mansfield Lab											
Chromium, Trivalent	506		mg/kg	3.97	3.37	1		10/31/25 20:47	NA	107,-	

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-57 Date Collected: 10/21/25 12:05

Client ID: FROG-SS-FB-105 Date Received: 10/21/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.100	0.0318	1	10/23/25 15:00	10/30/25 22:43	EPA 3005A	1,6010D	JMF
Antimony, Total	ND		mg/l	0.0500	0.0071	1	10/23/25 15:00	10/30/25 22:43	EPA 3005A	1,6010D	JMF
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	10/23/25 15:00	10/30/25 22:43	EPA 3005A	1,6010D	JMF
Barium, Total	0.0060	J	mg/l	0.0100	0.0021	1	10/23/25 15:00	10/30/25 22:43	EPA 3005A	1,6010D	JMF
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	10/23/25 15:00	10/30/25 22:43	EPA 3005A	1,6010D	JMF
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	10/23/25 15:00	10/30/25 22:43	EPA 3005A	1,6010D	JMF
Calcium, Total	ND		mg/l	0.100	0.0350	1	10/23/25 15:00	10/30/25 22:43	EPA 3005A	1,6010D	JMF
Chromium, Total	ND		mg/l	0.0100	0.0021	1	10/23/25 15:00	10/30/25 22:43	EPA 3005A	1,6010D	JMF
Cobalt, Total	ND		mg/l	0.0200	0.0017	1	10/23/25 15:00	10/30/25 22:43	EPA 3005A	1,6010D	JMF
Copper, Total	ND		mg/l	0.0100	0.0022	1	10/23/25 15:00	10/30/25 22:43	EPA 3005A	1,6010D	JMF
Iron, Total	ND		mg/l	0.0500	0.0090	1	10/23/25 15:00	10/30/25 22:43	EPA 3005A	1,6010D	JMF
Lead, Total	ND		mg/l	0.0100	0.0027	1	10/23/25 15:00	10/30/25 22:43	EPA 3005A	1,6010D	JMF
Magnesium, Total	ND		mg/l	0.100	0.0153	1	10/23/25 15:00	10/30/25 22:43	EPA 3005A	1,6010D	JMF
Manganese, Total	ND		mg/l	0.0100	0.0016	1	10/23/25 15:00	10/30/25 22:43	EPA 3005A	1,6010D	JMF
Mercury, Total	0.00012	J	mg/l	0.00020	0.00009	1	10/23/25 15:35	10/25/25 14:23	EPA 7470A	1,7470A	CME
Nickel, Total	ND		mg/l	0.0250	0.0024	1	10/23/25 15:00	10/30/25 22:43	EPA 3005A	1,6010D	JMF
Potassium, Total	ND		mg/l	2.50	0.237	1	10/23/25 15:00	10/30/25 22:43	EPA 3005A	1,6010D	JMF
Selenium, Total	ND		mg/l	0.0100	0.0035	1	10/23/25 15:00	10/30/25 22:43	EPA 3005A	1,6010D	JMF
Silver, Total	ND		mg/l	0.0070	0.0028	1	10/23/25 15:00	10/30/25 22:43	EPA 3005A	1,6010D	JMF
Sodium, Total	ND		mg/l	2.00	0.120	1	10/23/25 15:00	10/30/25 22:43	EPA 3005A	1,6010D	JMF
Thallium, Total	ND		mg/l	0.0200	0.0025	1	10/23/25 15:00	10/30/25 22:43	EPA 3005A	1,6010D	JMF
Vanadium, Total	ND		mg/l	0.0100	0.0020	1	10/23/25 15:00	10/30/25 22:43	EPA 3005A	1,6010D	JMF
Zinc, Total	ND		mg/l	0.0500	0.0021	1	10/23/25 15:00	10/30/25 22:43	EPA 3005A	1,6010D	JMF
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		10/30/25 22:43	NA	107,-	

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-58 Date Collected: 10/21/25 10:36

Client ID: FROG-SS-EB Date Received: 10/21/25

Sample Location: CARLISLE, PA Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.100	0.0318	1	10/23/25 11:05	11/05/25 09:52	EPA 3005A	1,6010D	LRS
Antimony, Total	ND		mg/l	0.0500	0.0071	1	10/23/25 11:05	11/05/25 09:52	EPA 3005A	1,6010D	LRS
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	10/23/25 11:05	11/05/25 09:52	EPA 3005A	1,6010D	LRS
Barium, Total	ND		mg/l	0.0100	0.0021	1	10/23/25 11:05	11/05/25 09:52	EPA 3005A	1,6010D	LRS
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	10/23/25 11:05	11/05/25 09:52	EPA 3005A	1,6010D	LRS
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	10/23/25 11:05	11/05/25 09:52	EPA 3005A	1,6010D	LRS
Calcium, Total	0.369		mg/l	0.100	0.0350	1	10/23/25 11:05	11/05/25 09:52	EPA 3005A	1,6010D	LRS
Chromium, Total	ND		mg/l	0.0100	0.0021	1	10/23/25 11:05	11/05/25 09:52	EPA 3005A	1,6010D	LRS
Cobalt, Total	ND		mg/l	0.0200	0.0017	1	10/23/25 11:05	11/05/25 09:52	EPA 3005A	1,6010D	LRS
Copper, Total	ND		mg/l	0.0100	0.0022	1	10/23/25 11:05	11/05/25 09:52	EPA 3005A	1,6010D	LRS
Iron, Total	0.0221	J	mg/l	0.0500	0.0090	1	10/23/25 11:05	11/05/25 09:52	EPA 3005A	1,6010D	LRS
Lead, Total	ND		mg/l	0.0100	0.0027	1	10/23/25 11:05	11/05/25 09:52	EPA 3005A	1,6010D	LRS
Magnesium, Total	0.132		mg/l	0.100	0.0153	1	10/23/25 11:05	11/05/25 09:52	EPA 3005A	1,6010D	LRS
Manganese, Total	0.0036	J	mg/l	0.0100	0.0016	1	10/23/25 11:05	11/05/25 09:52	EPA 3005A	1,6010D	LRS
Mercury, Total	ND		mg/l	0.00020	0.00009	1	10/31/25 13:17	10/31/25 16:52	EPA 7470A	1,7470A	CME
Nickel, Total	ND		mg/l	0.0250	0.0024	1	10/23/25 11:05	11/05/25 09:52	EPA 3005A	1,6010D	LRS
Potassium, Total	ND		mg/l	2.50	0.237	1	10/23/25 11:05	11/05/25 09:52	EPA 3005A	1,6010D	LRS
Selenium, Total	ND		mg/l	0.0100	0.0035	1	10/23/25 11:05	11/05/25 09:52	EPA 3005A	1,6010D	LRS
Silver, Total	ND		mg/l	0.0070	0.0028	1	10/23/25 11:05	11/05/25 09:52	EPA 3005A	1,6010D	LRS
Sodium, Total	1.60	J	mg/l	2.00	0.120	1	10/23/25 11:05	11/05/25 09:52	EPA 3005A	1,6010D	LRS
Thallium, Total	ND		mg/l	0.0200	0.0025	1	10/23/25 11:05	11/05/25 09:52	EPA 3005A	1,6010D	LRS
Vanadium, Total	ND		mg/l	0.0100	0.0020	1	10/23/25 11:05	11/05/25 09:52	EPA 3005A	1,6010D	LRS
Zinc, Total	0.0044	J	mg/l	0.0500	0.0021	1	10/23/25 11:05	11/05/25 09:52	EPA 3005A	1,6010D	LRS
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		11/05/25 09:52	NA	107,-	

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 14,27 Batch: WG2130440-1										
Aluminum, Total	ND		mg/l	0.100	0.0318	1	10/21/25 09:05	10/24/25 11:52	1,6010D	JMF
Antimony, Total	ND		mg/l	0.0500	0.0071	1	10/21/25 09:05	10/24/25 11:52	1,6010D	JMF
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	10/21/25 09:05	10/24/25 11:52	1,6010D	JMF
Barium, Total	ND		mg/l	0.0100	0.0021	1	10/21/25 09:05	10/24/25 11:52	1,6010D	JMF
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	10/21/25 09:05	10/24/25 11:52	1,6010D	JMF
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	10/21/25 09:05	10/24/25 11:52	1,6010D	JMF
Calcium, Total	ND		mg/l	0.100	0.0350	1	10/21/25 09:05	10/24/25 11:52	1,6010D	JMF
Chromium, Total	ND		mg/l	0.0100	0.0021	1	10/21/25 09:05	10/24/25 11:52	1,6010D	JMF
Cobalt, Total	ND		mg/l	0.0200	0.0017	1	10/21/25 09:05	10/24/25 11:52	1,6010D	JMF
Copper, Total	ND		mg/l	0.0100	0.0022	1	10/21/25 09:05	10/24/25 11:52	1,6010D	JMF
Iron, Total	0.0117	J	mg/l	0.0500	0.0090	1	10/21/25 09:05	10/24/25 11:52	1,6010D	JMF
Lead, Total	ND		mg/l	0.0100	0.0027	1	10/21/25 09:05	10/24/25 11:52	1,6010D	JMF
Magnesium, Total	ND		mg/l	0.100	0.0153	1	10/21/25 09:05	10/24/25 11:52	1,6010D	JMF
Manganese, Total	ND		mg/l	0.0100	0.0016	1	10/21/25 09:05	10/24/25 11:52	1,6010D	JMF
Nickel, Total	ND		mg/l	0.0250	0.0024	1	10/21/25 09:05	10/24/25 11:52	1,6010D	JMF
Potassium, Total	ND		mg/l	2.50	0.237	1	10/21/25 09:05	10/24/25 11:52	1,6010D	JMF
Selenium, Total	ND		mg/l	0.0100	0.0035	1	10/21/25 09:05	10/24/25 11:52	1,6010D	JMF
Silver, Total	ND		mg/l	0.0070	0.0028	1	10/21/25 09:05	10/24/25 11:52	1,6010D	JMF
Sodium, Total	ND		mg/l	2.00	0.120	1	10/21/25 09:05	10/24/25 11:52	1,6010D	JMF
Thallium, Total	ND		mg/l	0.0200	0.0025	1	10/21/25 09:05	10/24/25 11:52	1,6010D	JMF
Vanadium, Total	ND		mg/l	0.0100	0.0020	1	10/21/25 09:05	10/24/25 11:52	1,6010D	JMF
Zinc, Total	ND		mg/l	0.0500	0.0021	1	10/21/25 09:05	10/24/25 11:52	1,6010D	JMF

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 14,27 Batch: WG2130441-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	10/21/25 11:35	10/23/25 18:39	1,7470A	RDB

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-03,05-13,15-19 Batch: WG2131135-1										
Aluminum, Total	ND		mg/kg	4.00	1.30	1	10/22/25 10:32	10/24/25 13:16	1,6010D	EFM
Antimony, Total	ND		mg/kg	2.00	1.54	1	10/22/25 10:32	10/24/25 13:16	1,6010D	EFM
Arsenic, Total	ND		mg/kg	0.400	0.173	1	10/22/25 10:32	10/24/25 13:16	1,6010D	EFM
Barium, Total	ND		mg/kg	0.400	0.042	1	10/22/25 10:32	10/24/25 13:16	1,6010D	EFM
Beryllium, Total	ND		mg/kg	0.200	0.022	1	10/22/25 10:32	10/24/25 13:16	1,6010D	EFM
Cadmium, Total	ND		mg/kg	0.400	0.022	1	10/22/25 10:32	10/24/25 13:16	1,6010D	EFM
Calcium, Total	ND		mg/kg	4.00	2.27	1	10/22/25 10:32	10/24/25 13:16	1,6010D	EFM
Chromium, Total	ND		mg/kg	0.400	0.339	1	10/22/25 10:32	10/24/25 13:16	1,6010D	EFM
Cobalt, Total	ND		mg/kg	0.800	0.099	1	10/22/25 10:32	10/24/25 13:16	1,6010D	EFM
Copper, Total	ND		mg/kg	0.400	0.091	1	10/22/25 10:32	10/24/25 13:16	1,6010D	EFM
Iron, Total	1.11	J	mg/kg	2.00	0.420	1	10/22/25 10:32	10/24/25 13:16	1,6010D	EFM
Lead, Total	ND		mg/kg	2.00	0.095	1	10/22/25 10:32	10/24/25 13:16	1,6010D	EFM
Magnesium, Total	ND		mg/kg	4.00	0.652	1	10/22/25 10:32	10/24/25 13:16	1,6010D	EFM
Manganese, Total	ND		mg/kg	0.400	0.214	1	10/22/25 10:32	10/24/25 13:16	1,6010D	EFM
Nickel, Total	ND		mg/kg	1.00	0.323	1	10/22/25 10:32	10/24/25 13:16	1,6010D	EFM
Potassium, Total	ND		mg/kg	100	20.3	1	10/22/25 10:32	10/24/25 13:16	1,6010D	EFM
Selenium, Total	ND		mg/kg	0.800	0.132	1	10/22/25 10:32	10/24/25 13:16	1,6010D	EFM
Silver, Total	ND		mg/kg	0.200	0.119	1	10/22/25 10:32	10/24/25 13:16	1,6010D	EFM
Sodium, Total	ND		mg/kg	80.0	42.4	1	10/22/25 10:32	10/24/25 13:16	1,6010D	EFM
Thallium, Total	ND		mg/kg	0.800	0.361	1	10/22/25 10:32	10/24/25 13:16	1,6010D	EFM
Vanadium, Total	ND		mg/kg	0.400	0.060	1	10/22/25 10:32	10/24/25 13:16	1,6010D	EFM
Zinc, Total	ND		mg/kg	2.00	0.242	1	10/22/25 10:32	10/24/25 13:16	1,6010D	EFM

Prep Information

Digestion Method: EPA 3050B

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-03,05-13,15-19 Batch: WG2131140-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	10/22/25 11:41	10/23/25 23:19	1,7471B	RDB

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 04 Batch: WG2131460-1										
Aluminum, Total	ND		mg/kg	4.00	1.30	1	10/23/25 03:08	10/24/25 10:31	1,6010D	EFM
Antimony, Total	ND		mg/kg	2.00	1.54	1	10/23/25 03:08	10/24/25 10:31	1,6010D	EFM
Arsenic, Total	ND		mg/kg	0.400	0.173	1	10/23/25 03:08	10/24/25 10:31	1,6010D	EFM
Barium, Total	ND		mg/kg	0.400	0.042	1	10/23/25 03:08	10/24/25 10:31	1,6010D	EFM
Beryllium, Total	ND		mg/kg	0.200	0.022	1	10/23/25 03:08	10/24/25 10:31	1,6010D	EFM
Cadmium, Total	ND		mg/kg	0.400	0.022	1	10/23/25 03:08	10/24/25 10:31	1,6010D	EFM
Calcium, Total	ND		mg/kg	4.00	2.27	1	10/23/25 03:08	10/24/25 10:31	1,6010D	EFM
Chromium, Total	ND		mg/kg	0.400	0.339	1	10/23/25 03:08	10/24/25 10:31	1,6010D	EFM
Cobalt, Total	ND		mg/kg	0.800	0.099	1	10/23/25 03:08	10/24/25 10:31	1,6010D	EFM
Copper, Total	ND		mg/kg	0.400	0.091	1	10/23/25 03:08	10/24/25 10:31	1,6010D	EFM
Iron, Total	0.674	J	mg/kg	2.00	0.420	1	10/23/25 03:08	10/24/25 10:31	1,6010D	EFM
Lead, Total	ND		mg/kg	2.00	0.095	1	10/23/25 03:08	10/24/25 10:31	1,6010D	EFM
Magnesium, Total	ND		mg/kg	4.00	0.652	1	10/23/25 03:08	10/24/25 10:31	1,6010D	EFM
Manganese, Total	ND		mg/kg	0.400	0.214	1	10/23/25 03:08	10/24/25 10:31	1,6010D	EFM
Nickel, Total	ND		mg/kg	1.00	0.323	1	10/23/25 03:08	10/24/25 10:31	1,6010D	EFM
Potassium, Total	ND		mg/kg	100	20.3	1	10/23/25 03:08	10/24/25 10:31	1,6010D	EFM
Selenium, Total	ND		mg/kg	0.800	0.132	1	10/23/25 03:08	10/24/25 10:31	1,6010D	EFM
Silver, Total	ND		mg/kg	0.200	0.119	1	10/23/25 03:08	10/24/25 10:31	1,6010D	EFM
Sodium, Total	ND		mg/kg	80.0	42.4	1	10/23/25 03:08	10/24/25 10:31	1,6010D	EFM
Thallium, Total	ND		mg/kg	0.800	0.361	1	10/23/25 03:08	10/24/25 10:31	1,6010D	EFM
Vanadium, Total	ND		mg/kg	0.400	0.060	1	10/23/25 03:08	10/24/25 10:31	1,6010D	EFM
Zinc, Total	ND		mg/kg	2.00	0.242	1	10/23/25 03:08	10/24/25 10:31	1,6010D	EFM

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 04 Batch: WG2131461-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	10/23/25 03:27	10/23/25 20:03	1,7471B	RDB

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 20-26 Batch: WG2131466-1										
Aluminum, Total	ND		mg/kg	4.00	1.30	1	10/22/25 22:09	10/27/25 19:56	1,6010D	MJR
Antimony, Total	ND		mg/kg	2.00	1.54	1	10/22/25 22:09	10/27/25 19:56	1,6010D	MJR
Arsenic, Total	ND		mg/kg	0.400	0.173	1	10/22/25 22:09	10/27/25 19:56	1,6010D	MJR
Barium, Total	ND		mg/kg	0.400	0.042	1	10/22/25 22:09	10/27/25 19:56	1,6010D	MJR
Beryllium, Total	ND		mg/kg	0.200	0.022	1	10/22/25 22:09	10/27/25 19:56	1,6010D	MJR
Cadmium, Total	ND		mg/kg	0.400	0.022	1	10/22/25 22:09	10/27/25 19:56	1,6010D	MJR
Calcium, Total	ND		mg/kg	4.00	2.27	1	10/22/25 22:09	10/27/25 19:56	1,6010D	MJR
Chromium, Total	ND		mg/kg	0.400	0.339	1	10/22/25 22:09	10/27/25 19:56	1,6010D	MJR
Cobalt, Total	ND		mg/kg	0.800	0.099	1	10/22/25 22:09	10/27/25 19:56	1,6010D	MJR
Copper, Total	ND		mg/kg	0.400	0.091	1	10/22/25 22:09	10/27/25 19:56	1,6010D	MJR
Iron, Total	0.530	J	mg/kg	2.00	0.420	1	10/22/25 22:09	10/27/25 19:56	1,6010D	MJR
Lead, Total	ND		mg/kg	2.00	0.095	1	10/22/25 22:09	10/27/25 19:56	1,6010D	MJR
Magnesium, Total	ND		mg/kg	4.00	0.652	1	10/22/25 22:09	10/27/25 19:56	1,6010D	MJR
Manganese, Total	ND		mg/kg	0.400	0.214	1	10/22/25 22:09	10/27/25 19:56	1,6010D	MJR
Nickel, Total	ND		mg/kg	1.00	0.323	1	10/22/25 22:09	10/27/25 19:56	1,6010D	MJR
Potassium, Total	ND		mg/kg	100	20.3	1	10/22/25 22:09	10/27/25 19:56	1,6010D	MJR
Selenium, Total	ND		mg/kg	0.800	0.132	1	10/22/25 22:09	10/27/25 19:56	1,6010D	MJR
Silver, Total	ND		mg/kg	0.200	0.119	1	10/22/25 22:09	10/27/25 19:56	1,6010D	MJR
Sodium, Total	ND		mg/kg	80.0	42.4	1	10/22/25 22:09	10/27/25 19:56	1,6010D	MJR
Thallium, Total	ND		mg/kg	0.800	0.361	1	10/22/25 22:09	10/27/25 19:56	1,6010D	MJR

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

Method Blank Analysis
Batch Quality Control

Vanadium, Total	ND	mg/kg	0.400	0.060	1	10/22/25 22:09	10/27/25 19:56	1,6010D	MJR
Zinc, Total	ND	mg/kg	2.00	0.242	1	10/22/25 22:09	10/27/25 19:56	1,6010D	MJR

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 20-26 Batch: WG2131469-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	10/22/25 22:17	10/25/25 12:52	1,7471B	CME

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 39 Batch: WG2131755-1										
Aluminum, Total	ND		mg/l	0.100	0.0318	1	10/23/25 11:11	10/28/25 16:40	1,6010D	MJR
Antimony, Total	ND		mg/l	0.0500	0.0071	1	10/23/25 11:11	10/28/25 16:40	1,6010D	MJR
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	10/23/25 11:11	10/28/25 16:40	1,6010D	MJR
Barium, Total	ND		mg/l	0.0100	0.0021	1	10/23/25 11:11	10/28/25 16:40	1,6010D	MJR
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	10/23/25 11:11	10/28/25 16:40	1,6010D	MJR
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	10/23/25 11:11	10/28/25 16:40	1,6010D	MJR
Calcium, Total	ND		mg/l	0.100	0.0350	1	10/23/25 11:11	10/28/25 16:40	1,6010D	MJR
Chromium, Total	ND		mg/l	0.0100	0.0021	1	10/23/25 11:11	10/28/25 16:40	1,6010D	MJR
Cobalt, Total	ND		mg/l	0.0200	0.0017	1	10/23/25 11:11	10/28/25 16:40	1,6010D	MJR
Copper, Total	ND		mg/l	0.0100	0.0022	1	10/23/25 11:11	10/28/25 16:40	1,6010D	MJR
Iron, Total	ND		mg/l	0.0500	0.0090	1	10/23/25 11:11	10/28/25 16:40	1,6010D	MJR
Lead, Total	ND		mg/l	0.0100	0.0027	1	10/23/25 11:11	10/28/25 16:40	1,6010D	MJR
Magnesium, Total	ND		mg/l	0.100	0.0153	1	10/23/25 11:11	10/28/25 16:40	1,6010D	MJR
Manganese, Total	ND		mg/l	0.0100	0.0016	1	10/23/25 11:11	10/28/25 16:40	1,6010D	MJR
Nickel, Total	ND		mg/l	0.0250	0.0024	1	10/23/25 11:11	10/28/25 16:40	1,6010D	MJR
Potassium, Total	ND		mg/l	2.50	0.237	1	10/23/25 11:11	10/28/25 16:40	1,6010D	MJR
Selenium, Total	ND		mg/l	0.0100	0.0035	1	10/23/25 11:11	10/28/25 16:40	1,6010D	MJR

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

Method Blank Analysis
Batch Quality Control

Silver, Total	ND	mg/l	0.0070	0.0028	1	10/23/25 11:11	10/28/25 16:40	1,6010D	MJR
Sodium, Total	ND	mg/l	2.00	0.120	1	10/23/25 11:11	10/28/25 16:40	1,6010D	MJR
Thallium, Total	ND	mg/l	0.0200	0.0025	1	10/23/25 11:11	10/28/25 16:40	1,6010D	MJR
Vanadium, Total	ND	mg/l	0.0100	0.0020	1	10/23/25 11:11	10/28/25 16:40	1,6010D	MJR
Zinc, Total	ND	mg/l	0.0500	0.0021	1	10/23/25 11:11	10/28/25 16:40	1,6010D	MJR

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 39 Batch: WG2131771-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	10/23/25 12:16	10/25/25 12:47	1,7470A	CME

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 50,57 Batch: WG2131888-1										
Aluminum, Total	ND		mg/l	0.100	0.0318	1	10/23/25 15:00	10/30/25 21:26	1,6010D	JMF
Antimony, Total	ND		mg/l	0.0500	0.0071	1	10/23/25 15:00	10/30/25 21:26	1,6010D	JMF
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	10/23/25 15:00	10/30/25 21:26	1,6010D	JMF
Barium, Total	ND		mg/l	0.0100	0.0021	1	10/23/25 15:00	10/30/25 21:26	1,6010D	JMF
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	10/23/25 15:00	10/30/25 21:26	1,6010D	JMF
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	10/23/25 15:00	10/30/25 21:26	1,6010D	JMF
Calcium, Total	ND		mg/l	0.100	0.0350	1	10/23/25 15:00	10/30/25 21:26	1,6010D	JMF
Chromium, Total	ND		mg/l	0.0100	0.0021	1	10/23/25 15:00	10/30/25 21:26	1,6010D	JMF
Cobalt, Total	ND		mg/l	0.0200	0.0017	1	10/23/25 15:00	10/30/25 21:26	1,6010D	JMF
Copper, Total	ND		mg/l	0.0100	0.0022	1	10/23/25 15:00	10/30/25 21:26	1,6010D	JMF
Iron, Total	ND		mg/l	0.0500	0.0090	1	10/23/25 15:00	10/30/25 21:26	1,6010D	JMF
Lead, Total	ND		mg/l	0.0100	0.0027	1	10/23/25 15:00	10/30/25 21:26	1,6010D	JMF
Magnesium, Total	ND		mg/l	0.100	0.0153	1	10/23/25 15:00	10/30/25 21:26	1,6010D	JMF
Manganese, Total	ND		mg/l	0.0100	0.0016	1	10/23/25 15:00	10/30/25 21:26	1,6010D	JMF

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

Method Blank Analysis
Batch Quality Control

Nickel, Total	ND	mg/l	0.0250	0.0024	1	10/23/25 15:00	10/30/25 21:26	1,6010D	JMF
Potassium, Total	ND	mg/l	2.50	0.237	1	10/23/25 15:00	10/30/25 21:26	1,6010D	JMF
Selenium, Total	ND	mg/l	0.0100	0.0035	1	10/23/25 15:00	10/30/25 21:26	1,6010D	JMF
Silver, Total	ND	mg/l	0.0070	0.0028	1	10/23/25 15:00	10/30/25 21:26	1,6010D	JMF
Sodium, Total	ND	mg/l	2.00	0.120	1	10/23/25 15:00	10/30/25 21:26	1,6010D	JMF
Thallium, Total	ND	mg/l	0.0200	0.0025	1	10/23/25 15:00	10/30/25 21:26	1,6010D	JMF
Vanadium, Total	ND	mg/l	0.0100	0.0020	1	10/23/25 15:00	10/30/25 21:26	1,6010D	JMF
Zinc, Total	ND	mg/l	0.0500	0.0021	1	10/23/25 15:00	10/30/25 21:26	1,6010D	JMF

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 50,57 Batch: WG2131894-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	10/23/25 15:35	10/25/25 13:53	1,7470A	CME

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 58 Batch: WG2131903-1										
Aluminum, Total	ND		mg/l	0.100	0.0318	1	10/23/25 11:05	11/05/25 09:09	1,6010D	LRS
Antimony, Total	ND		mg/l	0.0500	0.0071	1	10/23/25 11:05	11/05/25 09:09	1,6010D	LRS
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	10/23/25 11:05	11/05/25 09:09	1,6010D	LRS
Barium, Total	ND		mg/l	0.0100	0.0021	1	10/23/25 11:05	11/05/25 09:09	1,6010D	LRS
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	10/23/25 11:05	11/05/25 09:09	1,6010D	LRS
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	10/23/25 11:05	11/05/25 09:09	1,6010D	LRS
Calcium, Total	ND		mg/l	0.100	0.0350	1	10/23/25 11:05	11/05/25 09:09	1,6010D	LRS
Chromium, Total	ND		mg/l	0.0100	0.0021	1	10/23/25 11:05	11/05/25 09:09	1,6010D	LRS
Cobalt, Total	ND		mg/l	0.0200	0.0017	1	10/23/25 11:05	11/05/25 09:09	1,6010D	LRS
Copper, Total	ND		mg/l	0.0100	0.0022	1	10/23/25 11:05	11/05/25 09:09	1,6010D	LRS
Iron, Total	ND		mg/l	0.0500	0.0090	1	10/23/25 11:05	11/05/25 09:09	1,6010D	LRS

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

Method Blank Analysis
Batch Quality Control

Lead, Total	ND	mg/l	0.0100	0.0027	1	10/23/25 11:05	11/05/25 09:09	1,6010D	LRS
Magnesium, Total	ND	mg/l	0.100	0.0153	1	10/23/25 11:05	11/05/25 09:09	1,6010D	LRS
Manganese, Total	ND	mg/l	0.0100	0.0016	1	10/23/25 11:05	11/05/25 09:09	1,6010D	LRS
Nickel, Total	ND	mg/l	0.0250	0.0024	1	10/23/25 11:05	11/05/25 09:09	1,6010D	LRS
Potassium, Total	ND	mg/l	2.50	0.237	1	10/23/25 11:05	11/05/25 09:09	1,6010D	LRS
Selenium, Total	ND	mg/l	0.0100	0.0035	1	10/23/25 11:05	11/05/25 09:09	1,6010D	LRS
Silver, Total	ND	mg/l	0.0070	0.0028	1	10/23/25 11:05	11/05/25 09:09	1,6010D	LRS
Sodium, Total	ND	mg/l	2.00	0.120	1	10/23/25 11:05	11/05/25 09:09	1,6010D	LRS
Thallium, Total	ND	mg/l	0.0200	0.0025	1	10/23/25 11:05	11/05/25 09:09	1,6010D	LRS
Vanadium, Total	ND	mg/l	0.0100	0.0020	1	10/23/25 11:05	11/05/25 09:09	1,6010D	LRS
Zinc, Total	ND	mg/l	0.0500	0.0021	1	10/23/25 11:05	11/05/25 09:09	1,6010D	LRS

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 28-38 Batch: WG2131925-1										
Aluminum, Total	ND		mg/kg	4.00	1.30	1	10/23/25 21:40	10/24/25 09:56	1,6010D	TLD
Antimony, Total	ND		mg/kg	2.00	1.54	1	10/23/25 21:40	10/24/25 09:56	1,6010D	TLD
Arsenic, Total	ND		mg/kg	0.400	0.173	1	10/23/25 21:40	10/24/25 09:56	1,6010D	TLD
Barium, Total	ND		mg/kg	0.400	0.042	1	10/23/25 21:40	10/24/25 09:56	1,6010D	TLD
Beryllium, Total	ND		mg/kg	0.200	0.022	1	10/23/25 21:40	10/24/25 09:56	1,6010D	TLD
Cadmium, Total	ND		mg/kg	0.400	0.022	1	10/23/25 21:40	10/24/25 09:56	1,6010D	TLD
Calcium, Total	ND		mg/kg	4.00	2.27	1	10/23/25 21:40	10/24/25 09:56	1,6010D	TLD
Chromium, Total	ND		mg/kg	0.400	0.339	1	10/23/25 21:40	10/24/25 09:56	1,6010D	TLD
Cobalt, Total	ND		mg/kg	0.800	0.099	1	10/23/25 21:40	10/24/25 09:56	1,6010D	TLD
Copper, Total	ND		mg/kg	0.400	0.091	1	10/23/25 21:40	10/24/25 09:56	1,6010D	TLD
Iron, Total	0.693	J	mg/kg	2.00	0.420	1	10/23/25 21:40	10/24/25 09:56	1,6010D	TLD
Lead, Total	ND		mg/kg	2.00	0.095	1	10/23/25 21:40	10/24/25 09:56	1,6010D	TLD
Magnesium, Total	ND		mg/kg	4.00	0.652	1	10/23/25 21:40	10/24/25 09:56	1,6010D	TLD
Manganese, Total	ND		mg/kg	0.400	0.214	1	10/23/25 21:40	10/24/25 09:56	1,6010D	TLD
Nickel, Total	ND		mg/kg	1.00	0.323	1	10/23/25 21:40	10/24/25 09:56	1,6010D	TLD
Potassium, Total	ND		mg/kg	100	20.3	1	10/23/25 21:40	10/24/25 09:56	1,6010D	TLD
Selenium, Total	ND		mg/kg	0.800	0.132	1	10/23/25 21:40	10/24/25 09:56	1,6010D	TLD
Silver, Total	ND		mg/kg	0.200	0.119	1	10/23/25 21:40	10/24/25 09:56	1,6010D	TLD

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

Method Blank Analysis
Batch Quality Control

Sodium, Total	ND	mg/kg	80.0	42.4	1	10/23/25 21:40	10/24/25 09:56	1,6010D	TLD
Thallium, Total	ND	mg/kg	0.800	0.361	1	10/23/25 21:40	10/24/25 09:56	1,6010D	TLD
Vanadium, Total	ND	mg/kg	0.400	0.060	1	10/23/25 21:40	10/24/25 09:56	1,6010D	TLD
Zinc, Total	ND	mg/kg	2.00	0.242	1	10/23/25 21:40	10/24/25 09:56	1,6010D	TLD

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 28-38 Batch: WG2131927-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	10/23/25 21:51	10/24/25 06:46	1,7471B	RDB

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 44-45,47-49,51,53-54,56 Batch: WG2132823-1										
Aluminum, Total	ND		mg/kg	4.00	1.30	1	10/26/25 09:58	10/28/25 12:36	1,6010D	JMF
Antimony, Total	ND		mg/kg	2.00	1.54	1	10/26/25 09:58	10/28/25 12:36	1,6010D	JMF
Arsenic, Total	ND		mg/kg	0.400	0.173	1	10/26/25 09:58	10/28/25 12:36	1,6010D	JMF
Barium, Total	ND		mg/kg	0.400	0.042	1	10/26/25 09:58	10/28/25 12:36	1,6010D	JMF
Beryllium, Total	ND		mg/kg	0.200	0.022	1	10/26/25 09:58	10/28/25 12:36	1,6010D	JMF
Cadmium, Total	ND		mg/kg	0.400	0.022	1	10/26/25 09:58	10/28/25 12:36	1,6010D	JMF
Calcium, Total	ND		mg/kg	4.00	2.27	1	10/26/25 09:58	10/28/25 12:36	1,6010D	JMF
Chromium, Total	ND		mg/kg	0.400	0.339	1	10/26/25 09:58	10/28/25 12:36	1,6010D	JMF
Cobalt, Total	ND		mg/kg	0.800	0.099	1	10/26/25 09:58	10/28/25 12:36	1,6010D	JMF
Copper, Total	ND		mg/kg	0.400	0.091	1	10/26/25 09:58	10/28/25 12:36	1,6010D	JMF
Iron, Total	0.631	J	mg/kg	2.00	0.420	1	10/26/25 09:58	10/28/25 12:36	1,6010D	JMF
Lead, Total	ND		mg/kg	2.00	0.095	1	10/26/25 09:58	10/28/25 12:36	1,6010D	JMF
Magnesium, Total	ND		mg/kg	4.00	0.652	1	10/26/25 09:58	10/28/25 12:36	1,6010D	JMF
Manganese, Total	ND		mg/kg	0.400	0.214	1	10/26/25 09:58	10/28/25 12:36	1,6010D	JMF
Nickel, Total	ND		mg/kg	1.00	0.323	1	10/26/25 09:58	10/28/25 12:36	1,6010D	JMF

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

Method Blank Analysis
Batch Quality Control

Potassium, Total	ND	mg/kg	100	20.3	1	10/26/25 09:58	10/28/25 12:36	1,6010D	JMF
Selenium, Total	ND	mg/kg	0.800	0.132	1	10/26/25 09:58	10/28/25 12:36	1,6010D	JMF
Silver, Total	ND	mg/kg	0.200	0.119	1	10/26/25 09:58	10/28/25 12:36	1,6010D	JMF
Sodium, Total	ND	mg/kg	80.0	42.4	1	10/26/25 09:58	10/28/25 12:36	1,6010D	JMF
Thallium, Total	ND	mg/kg	0.800	0.361	1	10/26/25 09:58	10/28/25 12:36	1,6010D	JMF
Vanadium, Total	ND	mg/kg	0.400	0.060	1	10/26/25 09:58	10/28/25 12:36	1,6010D	JMF
Zinc, Total	ND	mg/kg	2.00	0.242	1	10/26/25 09:58	10/28/25 12:36	1,6010D	JMF

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 44-45,47-49,51,53-54,56 Batch: WG2132824-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	10/26/25 10:30	10/27/25 11:35	1,7471B	JWN

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 46 Batch: WG2133427-1										
Aluminum, Total	ND		mg/kg	4.00	1.30	1	10/27/25 23:51	10/29/25 19:59	1,6010D	JMF
Antimony, Total	ND		mg/kg	2.00	1.54	1	10/27/25 23:51	10/29/25 19:59	1,6010D	JMF
Arsenic, Total	ND		mg/kg	0.400	0.173	1	10/27/25 23:51	10/29/25 19:59	1,6010D	JMF
Barium, Total	ND		mg/kg	0.400	0.042	1	10/27/25 23:51	10/29/25 19:59	1,6010D	JMF
Beryllium, Total	ND		mg/kg	0.200	0.022	1	10/27/25 23:51	10/29/25 19:59	1,6010D	JMF
Cadmium, Total	ND		mg/kg	0.400	0.022	1	10/27/25 23:51	10/29/25 19:59	1,6010D	JMF
Calcium, Total	ND		mg/kg	4.00	2.27	1	10/27/25 23:51	10/29/25 19:59	1,6010D	JMF
Chromium, Total	ND		mg/kg	0.400	0.339	1	10/27/25 23:51	10/29/25 19:59	1,6010D	JMF
Cobalt, Total	ND		mg/kg	0.800	0.099	1	10/27/25 23:51	10/29/25 19:59	1,6010D	JMF
Copper, Total	ND		mg/kg	0.400	0.091	1	10/27/25 23:51	10/29/25 19:59	1,6010D	JMF
Iron, Total	0.878	J	mg/kg	2.00	0.420	1	10/27/25 23:51	10/29/25 19:59	1,6010D	JMF
Lead, Total	ND		mg/kg	2.00	0.095	1	10/27/25 23:51	10/29/25 19:59	1,6010D	JMF

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

Method Blank Analysis
Batch Quality Control

Magnesium, Total	ND	mg/kg	4.00	0.652	1	10/27/25 23:51	10/29/25 19:59	1,6010D	JMF
Manganese, Total	ND	mg/kg	0.400	0.214	1	10/27/25 23:51	10/29/25 19:59	1,6010D	JMF
Nickel, Total	ND	mg/kg	1.00	0.323	1	10/27/25 23:51	10/29/25 19:59	1,6010D	JMF
Potassium, Total	ND	mg/kg	100	20.3	1	10/27/25 23:51	10/29/25 19:59	1,6010D	JMF
Selenium, Total	ND	mg/kg	0.800	0.132	1	10/27/25 23:51	10/29/25 19:59	1,6010D	JMF
Silver, Total	ND	mg/kg	0.200	0.119	1	10/27/25 23:51	10/29/25 19:59	1,6010D	JMF
Sodium, Total	ND	mg/kg	80.0	42.4	1	10/27/25 23:51	10/29/25 19:59	1,6010D	JMF
Thallium, Total	ND	mg/kg	0.800	0.361	1	10/27/25 23:51	10/29/25 19:59	1,6010D	JMF
Vanadium, Total	ND	mg/kg	0.400	0.060	1	10/27/25 23:51	10/29/25 19:59	1,6010D	JMF
Zinc, Total	ND	mg/kg	2.00	0.242	1	10/27/25 23:51	10/29/25 19:59	1,6010D	JMF

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 46 Batch: WG2133441-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	10/28/25 03:44	10/29/25 07:35	1,7471B	JWN

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 52 Batch: WG2133982-1										
Aluminum, Total	ND		mg/kg	4.00	1.30	1	10/28/25 23:07	10/30/25 17:49	1,6010D	EFM
Antimony, Total	ND		mg/kg	2.00	1.54	1	10/28/25 23:07	10/30/25 17:49	1,6010D	EFM
Arsenic, Total	ND		mg/kg	0.400	0.173	1	10/28/25 23:07	10/30/25 17:49	1,6010D	EFM
Barium, Total	ND		mg/kg	0.400	0.042	1	10/28/25 23:07	10/30/25 17:49	1,6010D	EFM
Beryllium, Total	ND		mg/kg	0.200	0.022	1	10/28/25 23:07	10/30/25 17:49	1,6010D	EFM
Cadmium, Total	ND		mg/kg	0.400	0.022	1	10/28/25 23:07	10/30/25 17:49	1,6010D	EFM
Calcium, Total	ND		mg/kg	4.00	2.27	1	10/28/25 23:07	10/30/25 17:49	1,6010D	EFM
Chromium, Total	ND		mg/kg	0.400	0.339	1	10/28/25 23:07	10/30/25 17:49	1,6010D	EFM
Cobalt, Total	ND		mg/kg	0.800	0.099	1	10/28/25 23:07	10/30/25 17:49	1,6010D	EFM

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

Method Blank Analysis
Batch Quality Control

Copper, Total	ND		mg/kg	0.400	0.091	1	10/28/25 23:07	10/30/25 17:49	1,6010D	EFM
Iron, Total	0.812	J	mg/kg	2.00	0.420	1	10/28/25 23:07	10/30/25 17:49	1,6010D	EFM
Lead, Total	ND		mg/kg	2.00	0.095	1	10/28/25 23:07	10/30/25 17:49	1,6010D	EFM
Magnesium, Total	ND		mg/kg	4.00	0.652	1	10/28/25 23:07	10/30/25 17:49	1,6010D	EFM
Manganese, Total	ND		mg/kg	0.400	0.214	1	10/28/25 23:07	10/30/25 17:49	1,6010D	EFM
Nickel, Total	ND		mg/kg	1.00	0.323	1	10/28/25 23:07	10/30/25 17:49	1,6010D	EFM
Potassium, Total	ND		mg/kg	100	20.3	1	10/28/25 23:07	10/30/25 17:49	1,6010D	EFM
Selenium, Total	ND		mg/kg	0.800	0.132	1	10/28/25 23:07	10/30/25 17:49	1,6010D	EFM
Silver, Total	ND		mg/kg	0.200	0.119	1	10/28/25 23:07	10/30/25 17:49	1,6010D	EFM
Sodium, Total	ND		mg/kg	80.0	42.4	1	10/28/25 23:07	10/30/25 17:49	1,6010D	EFM
Thallium, Total	ND		mg/kg	0.800	0.361	1	10/28/25 23:07	10/30/25 17:49	1,6010D	EFM
Vanadium, Total	ND		mg/kg	0.400	0.060	1	10/28/25 23:07	10/30/25 17:49	1,6010D	EFM
Zinc, Total	ND		mg/kg	2.00	0.242	1	10/28/25 23:07	10/30/25 17:49	1,6010D	EFM

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 52 Batch: WG2133983-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	10/28/25 23:10	10/30/25 08:39	1,7471B	RDB

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 58 Batch: WG2135427-1										
Mercury, Total	0.00013	J	mg/l	0.00020	0.00009	1	10/31/25 13:17	10/31/25 17:24	1,7470A	CME

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 14,27 Batch: WG2130440-2								
Aluminum, Total	106		-		80-120	-		20
Antimony, Total	103		-		80-120	-		20
Arsenic, Total	101		-		80-120	-		20
Barium, Total	102		-		80-120	-		20
Beryllium, Total	106		-		80-120	-		20
Cadmium, Total	102		-		80-120	-		20
Calcium, Total	105		-		80-120	-		20
Chromium, Total	104		-		80-120	-		20
Cobalt, Total	100		-		80-120	-		20
Copper, Total	104		-		80-120	-		20
Iron, Total	106		-		80-120	-		20
Lead, Total	103		-		80-120	-		20
Magnesium, Total	104		-		80-120	-		20
Manganese, Total	107		-		80-120	-		20
Nickel, Total	102		-		80-120	-		20
Potassium, Total	110		-		80-120	-		20
Selenium, Total	102		-		80-120	-		20
Silver, Total	106		-		80-120	-		20
Sodium, Total	108		-		80-120	-		20
Thallium, Total	103		-		80-120	-		20
Vanadium, Total	106		-		80-120	-		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 14,27 Batch: WG2130440-2					
Zinc, Total	101	-	80-120	-	20
Total Metals - Mansfield Lab Associated sample(s): 14,27 Batch: WG2130441-2					
Mercury, Total	105	-	80-120	-	20

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03,05-13,15-19 Batch: WG2131135-2					
Aluminum, Total	92	-	80-120	-	20
Antimony, Total	92	-	80-120	-	20
Arsenic, Total	93	-	80-120	-	20
Barium, Total	90	-	80-120	-	20
Beryllium, Total	92	-	80-120	-	20
Cadmium, Total	92	-	80-120	-	20
Calcium, Total	94	-	80-120	-	20
Chromium, Total	92	-	80-120	-	20
Cobalt, Total	91	-	80-120	-	20
Copper, Total	92	-	80-120	-	20
Iron, Total	92	-	80-120	-	20
Lead, Total	96	-	80-120	-	20
Magnesium, Total	94	-	80-120	-	20
Manganese, Total	91	-	80-120	-	20
Nickel, Total	94	-	80-120	-	20
Potassium, Total	98	-	80-120	-	20
Selenium, Total	96	-	80-120	-	20
Silver, Total	91	-	80-120	-	20
Sodium, Total	97	-	80-120	-	20
Thallium, Total	96	-	80-120	-	20
Vanadium, Total	94	-	80-120	-	20

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03,05-13,15-19 Batch: WG2131135-2					
Zinc, Total	92	-	80-120	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-03,05-13,15-19 Batch: WG2131140-2					
Mercury, Total	98	-	80-120	-	20

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 04 Batch: WG2131460-2					
Aluminum, Total	99	-	80-120	-	20
Antimony, Total	100	-	80-120	-	20
Arsenic, Total	95	-	80-120	-	20
Barium, Total	98	-	80-120	-	20
Beryllium, Total	100	-	80-120	-	20
Cadmium, Total	100	-	80-120	-	20
Calcium, Total	97	-	80-120	-	20
Chromium, Total	99	-	80-120	-	20
Cobalt, Total	99	-	80-120	-	20
Copper, Total	98	-	80-120	-	20
Iron, Total	100	-	80-120	-	20
Lead, Total	98	-	80-120	-	20
Magnesium, Total	95	-	80-120	-	20
Manganese, Total	99	-	80-120	-	20
Nickel, Total	101	-	80-120	-	20
Potassium, Total	100	-	80-120	-	20
Selenium, Total	98	-	80-120	-	20
Silver, Total	96	-	80-120	-	20
Sodium, Total	98	-	80-120	-	20
Thallium, Total	97	-	80-120	-	20
Vanadium, Total	102	-	80-120	-	20

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 04 Batch: WG2131460-2					
Zinc, Total	100	-	80-120	-	20
Total Metals - Mansfield Lab Associated sample(s): 04 Batch: WG2131461-2					
Mercury, Total	94	-	80-120	-	20

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 20-26 Batch: WG2131466-2					
Aluminum, Total	100	-	80-120	-	20
Antimony, Total	96	-	80-120	-	20
Arsenic, Total	98	-	80-120	-	20
Barium, Total	97	-	80-120	-	20
Beryllium, Total	100	-	80-120	-	20
Cadmium, Total	99	-	80-120	-	20
Calcium, Total	101	-	80-120	-	20
Chromium, Total	98	-	80-120	-	20
Cobalt, Total	97	-	80-120	-	20
Copper, Total	95	-	80-120	-	20
Iron, Total	100	-	80-120	-	20
Lead, Total	97	-	80-120	-	20
Magnesium, Total	97	-	80-120	-	20
Manganese, Total	98	-	80-120	-	20
Nickel, Total	97	-	80-120	-	20
Potassium, Total	101	-	80-120	-	20
Selenium, Total	99	-	80-120	-	20
Silver, Total	92	-	80-120	-	20
Sodium, Total	102	-	80-120	-	20
Thallium, Total	96	-	80-120	-	20
Vanadium, Total	99	-	80-120	-	20

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 20-26 Batch: WG2131466-2					
Zinc, Total	99	-	80-120	-	20
Total Metals - Mansfield Lab Associated sample(s): 20-26 Batch: WG2131469-2					
Mercury, Total	86	-	80-120	-	20

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 39 Batch: WG2131755-2					
Aluminum, Total	104	-	80-120	-	20
Antimony, Total	83	-	80-120	-	20
Arsenic, Total	96	-	80-120	-	20
Barium, Total	106	-	80-120	-	20
Beryllium, Total	102	-	80-120	-	20
Cadmium, Total	96	-	80-120	-	20
Calcium, Total	102	-	80-120	-	20
Chromium, Total	96	-	80-120	-	20
Cobalt, Total	99	-	80-120	-	20
Copper, Total	100	-	80-120	-	20
Iron, Total	99	-	80-120	-	20
Lead, Total	99	-	80-120	-	20
Magnesium, Total	94	-	80-120	-	20
Manganese, Total	99	-	80-120	-	20
Nickel, Total	98	-	80-120	-	20
Potassium, Total	106	-	80-120	-	20
Selenium, Total	95	-	80-120	-	20
Silver, Total	97	-	80-120	-	20
Sodium, Total	99	-	80-120	-	20
Thallium, Total	102	-	80-120	-	20
Vanadium, Total	100	-	80-120	-	20

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 39 Batch: WG2131755-2					
Zinc, Total	100	-	80-120	-	20
Total Metals - Mansfield Lab Associated sample(s): 39 Batch: WG2131771-2					
Mercury, Total	101	-	80-120	-	20

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 50,57 Batch: WG2131888-2					
Aluminum, Total	102	-	80-120	-	20
Antimony, Total	95	-	80-120	-	20
Arsenic, Total	100	-	80-120	-	20
Barium, Total	102	-	80-120	-	20
Beryllium, Total	94	-	80-120	-	20
Cadmium, Total	105	-	80-120	-	20
Calcium, Total	98	-	80-120	-	20
Chromium, Total	103	-	80-120	-	20
Cobalt, Total	104	-	80-120	-	20
Copper, Total	102	-	80-120	-	20
Iron, Total	103	-	80-120	-	20
Lead, Total	98	-	80-120	-	20
Magnesium, Total	89	-	80-120	-	20
Manganese, Total	99	-	80-120	-	20
Nickel, Total	99	-	80-120	-	20
Potassium, Total	100	-	80-120	-	20
Selenium, Total	92	-	80-120	-	20
Silver, Total	101	-	80-120	-	20
Sodium, Total	91	-	80-120	-	20
Thallium, Total	103	-	80-120	-	20
Vanadium, Total	100	-	80-120	-	20

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 50,57 Batch: WG2131888-2					
Zinc, Total	101	-	80-120	-	20
Total Metals - Mansfield Lab Associated sample(s): 50,57 Batch: WG2131894-2					
Mercury, Total	97	-	80-120	-	20

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 58 Batch: WG2131903-2					
Aluminum, Total	105	-	80-120	-	20
Antimony, Total	102	-	80-120	-	20
Arsenic, Total	101	-	80-120	-	20
Barium, Total	103	-	80-120	-	20
Beryllium, Total	105	-	80-120	-	20
Cadmium, Total	101	-	80-120	-	20
Calcium, Total	106	-	80-120	-	20
Chromium, Total	103	-	80-120	-	20
Cobalt, Total	99	-	80-120	-	20
Copper, Total	100	-	80-120	-	20
Iron, Total	106	-	80-120	-	20
Lead, Total	102	-	80-120	-	20
Magnesium, Total	104	-	80-120	-	20
Manganese, Total	105	-	80-120	-	20
Nickel, Total	102	-	80-120	-	20
Potassium, Total	110	-	80-120	-	20
Selenium, Total	101	-	80-120	-	20
Silver, Total	103	-	80-120	-	20
Sodium, Total	110	-	80-120	-	20
Thallium, Total	102	-	80-120	-	20
Vanadium, Total	105	-	80-120	-	20

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 58 Batch: WG2131903-2					
Zinc, Total	100	-	80-120	-	20

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 28-38 Batch: WG2131925-2					
Aluminum, Total	106	-	80-120	-	20
Antimony, Total	110	-	80-120	-	20
Arsenic, Total	104	-	80-120	-	20
Barium, Total	105	-	80-120	-	20
Beryllium, Total	107	-	80-120	-	20
Cadmium, Total	108	-	80-120	-	20
Calcium, Total	104	-	80-120	-	20
Chromium, Total	107	-	80-120	-	20
Cobalt, Total	108	-	80-120	-	20
Copper, Total	108	-	80-120	-	20
Iron, Total	106	-	80-120	-	20
Lead, Total	109	-	80-120	-	20
Magnesium, Total	108	-	80-120	-	20
Manganese, Total	105	-	80-120	-	20
Nickel, Total	110	-	80-120	-	20
Potassium, Total	108	-	80-120	-	20
Selenium, Total	106	-	80-120	-	20
Silver, Total	105	-	80-120	-	20
Sodium, Total	107	-	80-120	-	20
Thallium, Total	109	-	80-120	-	20
Vanadium, Total	110	-	80-120	-	20

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 28-38 Batch: WG2131925-2					
Zinc, Total	110	-	80-120	-	20
Total Metals - Mansfield Lab Associated sample(s): 28-38 Batch: WG2131927-2					
Mercury, Total	84	-	80-120	-	20

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 44-45,47-49,51,53-54,56 Batch: WG2132823-2					
Aluminum, Total	100	-	80-120	-	20
Antimony, Total	102	-	80-120	-	20
Arsenic, Total	98	-	80-120	-	20
Barium, Total	95	-	80-120	-	20
Beryllium, Total	95	-	80-120	-	20
Cadmium, Total	97	-	80-120	-	20
Calcium, Total	94	-	80-120	-	20
Chromium, Total	93	-	80-120	-	20
Cobalt, Total	97	-	80-120	-	20
Copper, Total	97	-	80-120	-	20
Iron, Total	97	-	80-120	-	20
Lead, Total	100	-	80-120	-	20
Magnesium, Total	93	-	80-120	-	20
Manganese, Total	99	-	80-120	-	20
Nickel, Total	100	-	80-120	-	20
Potassium, Total	96	-	80-120	-	20
Selenium, Total	95	-	80-120	-	20
Silver, Total	92	-	80-120	-	20
Sodium, Total	94	-	80-120	-	20
Thallium, Total	104	-	80-120	-	20
Vanadium, Total	100	-	80-120	-	20

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 44-45,47-49,51,53-54,56 Batch: WG2132823-2					
Zinc, Total	98	-	80-120	-	20
Total Metals - Mansfield Lab Associated sample(s): 44-45,47-49,51,53-54,56 Batch: WG2132824-2					
Mercury, Total	97	-	80-120	-	20

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 46 Batch: WG2133427-2					
Aluminum, Total	103	-	80-120	-	20
Antimony, Total	101	-	80-120	-	20
Arsenic, Total	98	-	80-120	-	20
Barium, Total	101	-	80-120	-	20
Beryllium, Total	102	-	80-120	-	20
Cadmium, Total	101	-	80-120	-	20
Calcium, Total	103	-	80-120	-	20
Chromium, Total	101	-	80-120	-	20
Cobalt, Total	100	-	80-120	-	20
Copper, Total	103	-	80-120	-	20
Iron, Total	103	-	80-120	-	20
Lead, Total	100	-	80-120	-	20
Magnesium, Total	99	-	80-120	-	20
Manganese, Total	100	-	80-120	-	20
Nickel, Total	102	-	80-120	-	20
Potassium, Total	107	-	80-120	-	20
Selenium, Total	94	-	80-120	-	20
Silver, Total	100	-	80-120	-	20
Sodium, Total	108	-	80-120	-	20
Thallium, Total	101	-	80-120	-	20
Vanadium, Total	105	-	80-120	-	20

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 46 Batch: WG2133427-2					
Zinc, Total	100	-	80-120	-	20
Total Metals - Mansfield Lab Associated sample(s): 46 Batch: WG2133441-2					
Mercury, Total	100	-	80-120	-	20

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 52 Batch: WG2133982-2					
Aluminum, Total	98	-	80-120	-	20
Antimony, Total	99	-	80-120	-	20
Arsenic, Total	100	-	80-120	-	20
Barium, Total	98	-	80-120	-	20
Beryllium, Total	98	-	80-120	-	20
Cadmium, Total	96	-	80-120	-	20
Calcium, Total	97	-	80-120	-	20
Chromium, Total	98	-	80-120	-	20
Cobalt, Total	97	-	80-120	-	20
Copper, Total	100	-	80-120	-	20
Iron, Total	97	-	80-120	-	20
Lead, Total	100	-	80-120	-	20
Magnesium, Total	95	-	80-120	-	20
Manganese, Total	98	-	80-120	-	20
Nickel, Total	99	-	80-120	-	20
Potassium, Total	100	-	80-120	-	20
Selenium, Total	97	-	80-120	-	20
Silver, Total	98	-	80-120	-	20
Sodium, Total	99	-	80-120	-	20
Thallium, Total	102	-	80-120	-	20
Vanadium, Total	101	-	80-120	-	20

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 52 Batch: WG2133982-2					
Zinc, Total	98	-	80-120	-	20
Total Metals - Mansfield Lab Associated sample(s): 52 Batch: WG2133983-2					
Mercury, Total	102	-	80-120	-	20
Total Metals - Mansfield Lab Associated sample(s): 58 Batch: WG2135427-2					
Mercury, Total	107	-	80-120	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 14,27 QC Batch ID: WG2130440-3 WG2130440-4 QC Sample: L2565315-11 Client ID: MS Sample												
Aluminum, Total	ND	2	2.18	109		2.18	109		75-125	0		20
Antimony, Total	ND	0.5	0.530	106		0.535	107		75-125	1		20
Arsenic, Total	ND	0.12	0.129	108		0.132	110		75-125	2		20
Barium, Total	0.060	2	2.12	103		2.10	102		75-125	1		20
Beryllium, Total	ND	0.05	0.0530	106		0.0530	106		75-125	0		20
Cadmium, Total	ND	0.053	0.0540	102		0.0544	103		75-125	1		20
Calcium, Total	27.5	10	38.7	112		38.7	112		75-125	0		20
Chromium, Total	ND	0.2	0.204	102		0.205	102		75-125	0		20
Cobalt, Total	ND	0.5	0.504	101		0.506	101		75-125	0		20
Copper, Total	ND	0.25	0.263	105		0.265	106		75-125	1		20
Iron, Total	6.47	1	7.54	107		7.58	111		75-125	1		20
Lead, Total	ND	0.53	0.547	103		0.551	104		75-125	1		20
Magnesium, Total	5.97	10	16.4	104		16.6	106		75-125	1		20
Manganese, Total	1.50	0.5	2.03	106		2.04	108		75-125	0		20
Nickel, Total	ND	0.5	0.506	101		0.509	102		75-125	1		20
Potassium, Total	4.17	10	15.6	114		15.7	115		75-125	1		20
Selenium, Total	ND	0.12	0.130	108		0.128	107		75-125	2		20
Silver, Total	ND	0.05	0.0530	106		0.0532	106		75-125	0		20
Sodium, Total	62.1	10	73.6	115		74.1	120		75-125	1		20

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 14,27 QC Batch ID: WG2130440-3 WG2130440-4 QC Sample: L2565315-11 Client ID: MS Sample												
Thallium, Total	ND	0.12	0.120	100		0.121	101		75-125	1		20
Vanadium, Total	ND	0.5	0.528	106		0.531	106		75-125	1		20
Zinc, Total	0.026J	0.5	0.534	107		0.538	108		75-125	1		20

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 14,27 QC Batch ID: WG2130440-7 QC Sample: L2565278-11 Client ID: MS Sample												
Aluminum, Total	ND	2	1.98	99		-	-		75-125	-		
Antimony, Total	ND	0.5	0.442	88		-	-		75-125	-		
Arsenic, Total	ND	0.12	0.115	96		-	-		75-125	-		
Barium, Total	0.030	2	1.96	96		-	-		75-125	-		
Beryllium, Total	ND	0.05	0.0484	97		-	-		75-125	-		
Cadmium, Total	ND	0.053	0.0480	90		-	-		75-125	-		
Calcium, Total	68.7	10	78.9	102		-	-		75-125	-		
Chromium, Total	ND	0.2	0.182	91		-	-		75-125	-		
Cobalt, Total	ND	0.5	0.454	91		-	-		75-125	-		
Copper, Total	ND	0.25	0.241	96		-	-		75-125	-		
Iron, Total	0.0224J	1	0.959	96		-	-		75-125	-		
Lead, Total	ND	0.53	0.503	95		-	-		75-125	-		
Magnesium, Total	9.97	10	19.1	91		-	-		75-125	-		
Manganese, Total	0.0455	0.5	0.518	94		-	-		75-125	-		
Nickel, Total	ND	0.5	0.459	92		-	-		75-125	-		
Potassium, Total	13.8	10	24.6	108		-	-		75-125	-		
Selenium, Total	ND	0.12	0.118	98		-	-		75-125	-		
Silver, Total	ND	0.05	0.0469	94		-	-		75-125	-		
Sodium, Total	84.7	10	95.8	111		-	-		75-125	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 14,27 QC Batch ID: WG2130440-7 QC Sample: L2565278-11 Client ID: MS Sample												
Thallium, Total	ND	0.12	0.117	98		-	-		75-125	-		
Vanadium, Total	ND	0.5	0.474	95		-	-		75-125	-		
Zinc, Total	ND	0.5	0.454	91		-	-		75-125	-		
Total Metals - Mansfield Lab Associated sample(s): 14,27 QC Batch ID: WG2130441-3 QC Sample: L2565011-01 Client ID: MS Sample												
Mercury, Total	ND	0.005	0.00491	98		-	-		75-125	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03,05-13,15-19 QC Batch ID: WG2131135-3 WG2131135-4 QC Sample: L2565389-12 Client ID: MS Sample												
Aluminum, Total	1930	169	2660	**431**	Q	2260	**191**	Q	75-125	16		20
Antimony, Total	ND	42.4	25.1	**59**	Q	28.2	**65**	Q	75-125	12		20
Arsenic, Total	1.66	10.2	10.3	85		11.2	92		75-125	8		20
Barium, Total	11.2	169	172	95		180	98		75-125	5		20
Beryllium, Total	0.093J	4.24	4.14	98		4.31	100		75-125	4		20
Cadmium, Total	ND	4.49	3.82	85		3.62	79		75-125	5		20
Calcium, Total	20000	847	28500	**1000**	Q	64500	**5150**	Q	75-125	**77**	Q	20
Chromium, Total	4.69	16.9	19.6	88		19.8	87		75-125	1		20
Cobalt, Total	2.19	42.4	40.9	91		41.5	91		75-125	1		20
Copper, Total	5.59	21.2	27.6	104		27.0	99		75-125	2		20
Iron, Total	5660	84.7	6340	**802**	Q	5830	**197**	Q	75-125	8		20
Lead, Total	1.69J	44.9	43.1	96		45.0	98		75-125	4		20
Magnesium, Total	4570	847	5940	**162**	Q	28300	**2750**	Q	75-125	**131**	Q	20
Manganese, Total	223	42.4	351	**302**	Q	472	**576**	Q	75-125	**29**	Q	20
Nickel, Total	5.58	42.4	44.0	91		44.7	90		75-125	2		20
Potassium, Total	301	847	1070	91		1120	95		75-125	5		20
Selenium, Total	ND	10.2	9.44	93		9.92	96		75-125	5		20
Silver, Total	ND	4.24	3.98	94		4.31	100		75-125	8		20

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03,05-13,15-19 QC Batch ID: WG2131135-3 WG2131135-4 QC Sample: L2565389-12 Client ID: MS Sample												
Sodium, Total	ND	847	870	103		975	113		75-125	11		20
Thallium, Total	ND	10.2	9.08	89		9.55	92		75-125	5		20
Vanadium, Total	5.61	42.4	46.8	97		49.9	102		75-125	6		20
Zinc, Total	10.8	42.4	51.0	95		51.3	94		75-125	1		20
Total Metals - Mansfield Lab Associated sample(s): 01-03,05-13,15-19 QC Batch ID: WG2131140-3 WG2131140-4 QC Sample: L2565389-12 Client ID: MS Sample												
Mercury, Total	ND	1.47	1.42	96		1.60	96		80-120	12		20

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 04 (13-15)	QC Batch ID: WG2131460-3					WG2131460-4	QC Sample: L2565410-04			Client ID: FROG-SS-104		
Aluminum, Total	12400	191	13300	**471**	Q	7930	**0**	Q	75-125	**51**	Q	20
Antimony, Total	ND	47.8	15.0	**31**	Q	12.6	**26**	Q	75-125	17		20
Arsenic, Total	10.5	11.5	22.6	106		12.7	**19**	Q	75-125	**56**	Q	20
Barium, Total	95.9	191	275	94		252	80		75-125	9		20
Beryllium, Total	1.38	4.78	7.06	119		6.87	112		75-125	3		20
Cadmium, Total	0.107J	5.06	4.90	97		5.53	107		75-125	12		20
Calcium, Total	1230	955	2160	97		2110	90		75-125	2		20
Chromium, Total	25.1	19.1	43.9	98		38.7	**70**	Q	75-125	13		20
Cobalt, Total	12.3	47.8	57.1	94		54.6	87		75-125	4		20
Copper, Total	14.9	23.9	41.0	109		40.2	104		75-125	2		20
Iron, Total	27300	95.5	32100	**5020**	Q	23300	**0**	Q	75-125	**32**	Q	20
Lead, Total	13.6	50.6	65.2	102		66.5	102		75-125	2		20
Magnesium, Total	2680	955	3360	**71**	Q	2310	**0**	Q	75-125	**37**	Q	20
Manganese, Total	471	47.8	461	**0**	Q	363	**0**	Q	75-125	**24**	Q	20
Nickel, Total	20.9	47.8	68.7	100		67.5	96		75-125	2		20
Potassium, Total	681	955	1580	94		1220	**55**	Q	75-125	**26**	Q	20
Selenium, Total	ND	11.5	6.47	**56**	Q	4.95	**42**	Q	75-125	**27**	Q	20
Silver, Total	ND	4.78	4.58	96		4.44	91		75-125	3		20

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 04 (13-15)	QC Batch ID: WG2131460-3					WG2131460-4	QC Sample: L2565410-04		Client ID: FROG-SS-104			
Sodium, Total	ND	955	975	102		934	96		75-125	4		20
Thallium, Total	ND	11.5	10.5	92		10.2	87		75-125	3		20
Vanadium, Total	35.6	47.8	85.7	105		76.2	83		75-125	12		20
Zinc, Total	44.4	47.8	90.1	96		80.1	**73**	Q	75-125	12		20
Total Metals - Mansfield Lab Associated sample(s): 04 (13-15)	QC Batch ID: WG2131461-3					WG2131461-4	QC Sample: L2565410-04		Client ID: FROG-SS-104			
Mercury, Total	ND	1.59	1.52	96		1.55	96		80-120	2		20

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 20-26 QC Batch ID: WG2131466-3 WG2131466-4 QC Sample: L2565580-08 Client ID: MS Sample												
Aluminum, Total	638	176	927	**164**	Q	936	**167**	Q	75-125	1		20
Antimony, Total	ND	44	38.1	87		38.0	85		75-125	0		20
Arsenic, Total	ND	10.6	10.4	98		10.7	100		75-125	3		20
Barium, Total	2.52	176	174	97		178	99		75-125	2		20
Beryllium, Total	ND	4.4	4.47	102		4.55	102		75-125	2		20
Cadmium, Total	3.22	4.66	10.8	**162**	Q	8.05	102		75-125	**29**	Q	20
Calcium, Total	218	880	1120	102		1120	101		75-125	0		20
Chromium, Total	3.91	17.6	20.8	96		20.9	95		75-125	0		20
Cobalt, Total	0.584J	44	44.1	100		44.4	100		75-125	1		20
Copper, Total	2.43	22	24.0	98		24.4	99		75-125	2		20
Iron, Total	1470	88	1580	125		1700	**258**	Q	75-125	7		20
Lead, Total	0.662J	46.6	46.1	99		47.5	101		75-125	3		20
Magnesium, Total	124	880	1010	101		1000	98		75-125	1		20
Manganese, Total	15.2	44	57.4	96		62.6	106		75-125	9		20
Nickel, Total	1.00J	44	44.4	101		45.0	101		75-125	1		20
Potassium, Total	68.1J	880	940	107		954	107		75-125	1		20
Selenium, Total	ND	10.6	10.1	96		10.4	97		75-125	3		20
Silver, Total	ND	4.4	4.16	94		4.16	94		75-125	0		20
Sodium, Total	ND	880	945	107		962	108		75-125	2		20

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 20-26 QC Batch ID: WG2131466-3 WG2131466-4 QC Sample: L2565580-08 Client ID: MS Sample												
Thallium, Total	ND	10.6	9.78	93		10.2	96		75-125	4		20
Vanadium, Total	1.51	44	45.9	101		46.6	101		75-125	2		20
Zinc, Total	4.05J	44	50.5	115		48.4	109		75-125	4		20

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 20-26 121 (22-24)	QC Batch ID: WG2131466-7			WG2131466-8		QC Sample: L2565410-25			Client ID: FROG-SS-			
Aluminum, Total	14800	182	18700	**2140**	Q	18500	**2030**	Q	75-125	1		20
Antimony, Total	ND	45.6	14.3	**31**	Q	11.9	**26**	Q	75-125	18		20
Arsenic, Total	13.8	10.9	23.6	90		19.8	**55**	Q	75-125	18		20
Barium, Total	147	182	293	80		256	**60**	Q	75-125	13		20
Beryllium, Total	1.82	4.56	6.17	95		5.99	91		75-125	3		20
Cadmium, Total	0.103J	4.83	4.06	84		3.90	81		75-125	4		20
Calcium, Total	3720	912	4180	**50**	Q	3570	**0**	Q	75-125	16		20
Chromium, Total	32.3	18.2	50.1	98		47.3	82		75-125	6		20
Cobalt, Total	13.5	45.6	53.3	87		45.4	**70**	Q	75-125	16		20
Copper, Total	39.8	22.8	87.4	**209**	Q	48.3	**37**	Q	75-125	**58**	Q	20
Iron, Total	30200	91.2	38500	**9100**	Q	29300	**0**	Q	75-125	**27**	Q	20
Lead, Total	24.6	48.3	67.1	88		61.7	77		75-125	8		20
Magnesium, Total	4620	912	5740	123		5140	**57**	Q	75-125	11		20
Manganese, Total	3070	45.6	4330	**2760**	Q	1750	**0**	Q	75-125	**85**	Q	20
Nickel, Total	27.9	45.6	67.8	88		61.2	**73**	Q	75-125	10		20
Potassium, Total	1250	912	2600	**148**	Q	2560	**144**	Q	75-125	2		20
Selenium, Total	ND	10.9	5.20	**48**	Q	5.24	**48**	Q	75-125	1		20
Silver, Total	ND	4.56	3.53	77		3.52	77		75-125	0		20

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 20-26 QC Batch ID: WG2131466-7 WG2131466-8 QC Sample: L2565410-25 Client ID: FROG-SS-121 (22-24)												
Sodium, Total	ND	912	938	103		847	93		75-125	10		20
Thallium, Total	ND	10.9	7.90	**72**	Q	8.76	80		75-125	10		20
Vanadium, Total	41.4	45.6	87.3	101		81.0	87		75-125	7		20
Zinc, Total	34.1	45.6	73.1	86		70.0	79		75-125	4		20
Total Metals - Mansfield Lab Associated sample(s): 20-26 QC Batch ID: WG2131469-3 WG2131469-4 QC Sample: L2565580-08 Client ID: MS Sample												
Mercury, Total	ND	1.71	1.52	89		1.39	92		80-120	9		20
Total Metals - Mansfield Lab Associated sample(s): 20-26 QC Batch ID: WG2131469-5 WG2131469-6 QC Sample: L2565410-25 Client ID: FROG-SS-121 (22-24)												
Mercury, Total	0.192	1.53	1.51	86		1.49	84		80-120	1		20

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 39 QC Batch ID: WG2131755-3 QC Sample: L2565500-01 Client ID: MS Sample												
Aluminum, Total	0.062J	2	2.20	110		-	-		75-125	-		
Antimony, Total	ND	0.5	0.377	75		-	-		75-125	-		
Arsenic, Total	ND	0.12	0.124	103		-	-		75-125	-		
Barium, Total	0.0175	2	2.21	110		-	-		75-125	-		
Beryllium, Total	ND	0.05	0.0531	106		-	-		75-125	-		
Cadmium, Total	ND	0.053	0.0524	99		-	-		75-125	-		
Calcium, Total	41.7	10	51.1	94		-	-		75-125	-		
Chromium, Total	ND	0.2	0.201	100		-	-		75-125	-		
Cobalt, Total	ND	0.5	0.509	102		-	-		75-125	-		
Copper, Total	ND	0.25	0.264	106		-	-		75-125	-		
Iron, Total	0.170	1	1.18	101		-	-		75-125	-		
Lead, Total	ND	0.53	0.554	104		-	-		75-125	-		
Magnesium, Total	4.36	10	14.0	96		-	-		75-125	-		
Manganese, Total	0.338	0.5	0.843	101		-	-		75-125	-		
Nickel, Total	0.006J	0.5	0.511	102		-	-		75-125	-		
Potassium, Total	6.64	10	17.7	111		-	-		75-125	-		
Selenium, Total	ND	0.12	0.123	102		-	-		75-125	-		
Silver, Total	ND	0.05	0.0515	103		-	-		75-125	-		
Sodium, Total	4.15	10	14.1	100		-	-		75-125	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 39 QC Batch ID: WG2131755-3 QC Sample: L2565500-01 Client ID: MS Sample												
Thallium, Total	ND	0.12	0.130	108		-	-		75-125	-		
Vanadium, Total	ND	0.5	0.522	104		-	-		75-125	-		
Zinc, Total	ND	0.5	0.514	103		-	-		75-125	-		
Total Metals - Mansfield Lab Associated sample(s): 39 QC Batch ID: WG2131771-3 QC Sample: L2565698-06 Client ID: MS Sample												
Mercury, Total	0.00018J	0.005	0.00438	88		-	-		75-125	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 50,57 QC Batch ID: WG2131888-4 WG2131888-5 QC Sample: L2566421-04 Client ID: MS Sample												
Aluminum, Total	ND	2	1.97	98		2.02	101		75-125	3		20
Antimony, Total	ND	0.5	0.519	104		0.548	110		75-125	5		20
Arsenic, Total	ND	0.12	0.123	102		0.126	105		75-125	2		20
Barium, Total	0.119	2	2.04	96		2.08	98		75-125	2		20
Beryllium, Total	ND	0.05	0.0444	89		0.0456	91		75-125	3		20
Cadmium, Total	ND	0.053	0.0529	100		0.0560	106		75-125	6		20
Calcium, Total	151	10	155	**40**	Q	154	**30**	Q	75-125	1		20
Chromium, Total	ND	0.2	0.195	98		0.207	104		75-125	6		20
Cobalt, Total	0.003J	0.5	0.496	99		0.526	105		75-125	6		20
Copper, Total	ND	0.25	0.249	100		0.264	106		75-125	6		20
Iron, Total	0.031J	1	0.998	100		1.02	102		75-125	2		20
Lead, Total	ND	0.53	0.504	95		0.516	97		75-125	2		20
Magnesium, Total	32.4	10	41.1	87		42.3	99		75-125	3		20
Manganese, Total	5.12	0.5	5.37	**50**	Q	5.37	**50**	Q	75-125	0		20
Nickel, Total	0.007J	0.5	0.473	95		0.502	100		75-125	6		20
Potassium, Total	5.48	10	15.2	97		15.0	95		75-125	1		20
Selenium, Total	ND	0.12	0.116	97		0.118	98		75-125	2		20
Silver, Total	ND	0.05	0.0498	100		0.0522	104		75-125	5		20
Sodium, Total	16.5	10	25.0	85		24.9	84		75-125	0		20

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 50,57 QC Batch ID: WG2131888-4 WG2131888-5 QC Sample: L2566421-04 Client ID: MS Sample												
Thallium, Total	ND	0.12	0.122	102		0.126	105		75-125	3		20
Vanadium, Total	ND	0.5	0.482	96		0.512	102		75-125	6		20
Zinc, Total	0.003J	0.5	0.480	96		0.509	102		75-125	6		20
Total Metals - Mansfield Lab Associated sample(s): 50,57 QC Batch ID: WG2131894-3 QC Sample: L2566727-06 Client ID: MS Sample												
Mercury, Total	ND	0.005	0.00396	79		-	-		75-125	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 58 QC Batch ID: WG2131903-3 QC Sample: L2558607-46 Client ID: MS Sample												
Aluminum, Total	ND	2	2.14	107		-	-		75-125	-		
Antimony, Total	ND	0.5	0.543	109		-	-		75-125	-		
Arsenic, Total	0.011	0.12	0.142	110		-	-		75-125	-		
Barium, Total	0.028	2	2.11	104		-	-		75-125	-		
Beryllium, Total	ND	0.05	0.0532	106		-	-		75-125	-		
Cadmium, Total	ND	0.053	0.0549	104		-	-		75-125	-		
Calcium, Total	34.0	10	45.0	110		-	-		75-125	-		
Chromium, Total	ND	0.2	0.204	102		-	-		75-125	-		
Cobalt, Total	ND	0.5	0.509	102		-	-		75-125	-		
Copper, Total	0.025	0.25	0.280	102		-	-		75-125	-		
Iron, Total	0.158	1	1.22	106		-	-		75-125	-		
Lead, Total	0.008J	0.53	0.548	103		-	-		75-125	-		
Magnesium, Total	17.6	10	28.0	104		-	-		75-125	-		
Manganese, Total	0.014	0.5	0.541	106		-	-		75-125	-		
Nickel, Total	0.007J	0.5	0.525	105		-	-		75-125	-		
Potassium, Total	99.9	10	112	121		-	-		75-125	-		
Selenium, Total	ND	0.12	0.129	108		-	-		75-125	-		
Silver, Total	ND	0.05	0.0523	105		-	-		75-125	-		
Sodium, Total	46.8	10	58.1	113		-	-		75-125	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 58 QC Batch ID: WG2131903-3 QC Sample: L2558607-46 Client ID: MS Sample												
Thallium, Total	ND	0.12	0.119	99		-	-		75-125	-		
Vanadium, Total	ND	0.5	0.530	106		-	-		75-125	-		
Zinc, Total	0.034J	0.5	0.556	111		-	-		75-125	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 28-38 116 (18.5-20.5)	QC Batch ID: WG2131925-3					WG2131925-4			QC Sample: L2565410-35			Client ID: FROG-SS-
Aluminum, Total	8240	187	9490	**670**	Q	8690	**239**	Q	75-125	9		20
Antimony, Total	ND	46.6	14.6	**31**	Q	13.4	**28**	Q	75-125	9		20
Arsenic, Total	6.28	11.2	14.2	**71**	Q	14.3	**71**	Q	75-125	1		20
Barium, Total	35.1	187	200	88		189	82		75-125	6		20
Beryllium, Total	1.59	4.66	5.75	89		5.56	84		75-125	3		20
Cadmium, Total	0.071J	4.94	4.50	91		4.36	87		75-125	3		20
Calcium, Total	1280	933	2460	**126**	Q	2630	**143**	Q	75-125	7		20
Chromium, Total	53.9	18.7	67.2	**71**	Q	72.2	97		75-125	7		20
Cobalt, Total	23.0	46.6	60.9	81		59.0	76		75-125	3		20
Copper, Total	25.8	23.3	45.1	83		43.2	**74**	Q	75-125	4		20
Iron, Total	24900	93.3	21900	**0**	Q	21100	**0**	Q	75-125	4		20
Lead, Total	25.3	49.4	70.1	90		69.6	89		75-125	1		20
Magnesium, Total	2700	933	4030	**142**	Q	3480	83		75-125	15		20
Manganese, Total	452	46.6	475	**49**	Q	655	**431**	Q	75-125	**32**	Q	20
Nickel, Total	25.0	46.6	68.9	94		62.3	79		75-125	10		20
Potassium, Total	431	933	1250	88		1190	81		75-125	5		20
Selenium, Total	ND	11.2	7.19	**64**	Q	6.28	**56**	Q	75-125	14		20
Silver, Total	ND	4.66	4.21	90		3.94	84		75-125	7		20

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 28-38 116 (18.5-20.5) QC Batch ID: WG2131925-3 WG2131925-4 QC Sample: L2565410-35 Client ID: FROG-SS-												
Sodium, Total	ND	933	883	95		877	93		75-125	1		20
Thallium, Total	ND	11.2	9.77	87		9.57	85		75-125	2		20
Vanadium, Total	53.5	46.6	87.9	**74**	Q	84.8	**66**	Q	75-125	4		20
Zinc, Total	31.6	46.6	71.2	85		67.1	75		75-125	6		20
Total Metals - Mansfield Lab Associated sample(s): 28-38 116 (18.5-20.5) QC Batch ID: WG2131927-3 WG2131927-4 QC Sample: L2565410-35 Client ID: FROG-SS-												
Mercury, Total	0.070J	1.84	1.56	85		1.58	86		80-120	1		20

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 44-45,47-49,51,53-54,56 QC Batch ID: WG2132823-3 QC Sample: L2567586-01 Client ID: MS Sample												
Aluminum, Total	9890	206	10600	**345**	Q	-	-		75-125	-		
Antimony, Total	ND	51.4	17.1	**33**	Q	-	-		75-125	-		
Arsenic, Total	51.9	12.3	64.4	101		-	-		75-125	-		
Barium, Total	57.6	206	255	96		-	-		75-125	-		
Beryllium, Total	0.583	5.14	5.39	93		-	-		75-125	-		
Cadmium, Total	0.118J	5.45	5.27	97		-	-		75-125	-		
Calcium, Total	2100	1030	2010	**0**	Q	-	-		75-125	-		
Chromium, Total	45.5	20.6	79.9	**167**	Q	-	-		75-125	-		
Cobalt, Total	174	51.4	227	103		-	-		75-125	-		
Copper, Total	272	25.7	243	**0**	Q	-	-		75-125	-		
Iron, Total	20000	103	20400	**389**	Q	-	-		75-125	-		
Lead, Total	99.1	54.5	150	93		-	-		75-125	-		
Magnesium, Total	2190	1030	2950	**74**	Q	-	-		75-125	-		
Manganese, Total	490	51.4	520	**58**	Q	-	-		75-125	-		
Nickel, Total	41.1	51.4	89.3	94		-	-		75-125	-		
Potassium, Total	744	1030	1780	101		-	-		75-125	-		
Selenium, Total	1.83J	12.3	13.2	107		-	-		75-125	-		
Silver, Total	ND	5.14	4.61	90		-	-		75-125	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 44-45,47-49,51,53-54,56 QC Batch ID: WG2132823-3 QC Sample: L2567586-01 Client ID: MS Sample												
Sodium, Total	488	1030	1430	92		-	-		75-125	-		
Thallium, Total	ND	12.3	10.2	83		-	-		75-125	-		
Vanadium, Total	30.3	51.4	80.4	97		-	-		75-125	-		
Zinc, Total	160	51.4	214	105		-	-		75-125	-		
Total Metals - Mansfield Lab Associated sample(s): 44-45,47-49,51,53-54,56 QC Batch ID: WG2132824-3 QC Sample: L2567586-01 Client ID: MS Sample												
Mercury, Total	0.090J	2.14	2.23	104		-	-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 46	QC Batch ID: WG2133427-3	WG2133427-4	QC Sample: L2567247-02	Client ID: MS Sample								
Aluminum, Total	5430	167	5800	**222**	Q	5530	**63**	Q	75-125	5		20
Antimony, Total	ND	41.8	32.7	78		28.5	**71**	Q	75-125	14		20
Arsenic, Total	7.02	10	17.2	102		16.7	101		75-125	3		20
Barium, Total	65.9	167	236	102		217	95		75-125	8		20
Beryllium, Total	0.695	4.18	4.86	100		4.27	90		75-125	13		20
Cadmium, Total	0.268J	4.43	4.69	106		4.25	100		75-125	10		20
Calcium, Total	2650	835	3600	114		3300	82		75-125	9		20
Chromium, Total	72.6	16.7	104	**188**	Q	91.0	115		75-125	13		20
Cobalt, Total	5.70	41.8	47.1	99		42.4	92		75-125	11		20
Copper, Total	61.1	20.9	72.2	**53**	Q	63.1	**10**	Q	75-125	13		20
Iron, Total	51100	83.5	48000	**0**	Q	57000	**7400**	Q	75-125	17		20
Lead, Total	606	44.3	746	**316**	Q	646	95		75-125	14		20
Magnesium, Total	728	835	1450	86		1320	**74**	Q	75-125	9		20
Manganese, Total	235	41.8	263	**67**	Q	308	**183**	Q	75-125	16		20
Nickel, Total	30.4	41.8	70.0	95		63.5	83		75-125	10		20
Potassium, Total	485	835	1450	116		1360	110		75-125	6		20
Selenium, Total	ND	10	8.80	88		6.97	**73**	Q	75-125	**23**	Q	20
Silver, Total	0.244J	4.18	4.44	106		4.04	101		75-125	9		20
Sodium, Total	256	835	1170	109		1070	102		75-125	9		20

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 46 QC Batch ID: WG2133427-3 WG2133427-4 QC Sample: L2567247-02 Client ID: MS Sample												
Thallium, Total	ND	10	10.1	101		9.13	95		75-125	10		20
Vanadium, Total	14.0	41.8	57.9	105		53.9	100		75-125	7		20
Zinc, Total	226	41.8	302	**182**	Q	212	**0**	Q	75-125	**35**	Q	20

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 46 (30-32)	QC Batch ID: WG2133427-7	WG2133427-8	QC Sample: L2565410-46	Client ID: FROG-SS-122								
Aluminum, Total	7760	225	7750	**0**	Q	8480	**313**	Q	75-125	9		20
Antimony, Total	ND	56.3	9.80	**17**	Q	11.8	**20**	Q	75-125	19		20
Arsenic, Total	14.0	13.5	13.3	**0**	Q	15.4	**10**	Q	75-125	15		20
Barium, Total	324	225	958	**281**	Q	1000	**294**	Q	75-125	4		20
Beryllium, Total	2.00	5.63	7.11	91		7.41	94		75-125	4		20
Cadmium, Total	ND	5.97	4.86	81		5.23	86		75-125	7		20
Calcium, Total	29500	1130	47700	**1620**	Q	28700	**0**	Q	75-125	**50**	Q	20
Chromium, Total	20.5	22.5	34.8	**63**	Q	38.1	76		75-125	9		20
Cobalt, Total	18.2	56.3	63.4	80		66.3	84		75-125	4		20
Copper, Total	33.6	28.2	53.7	**71**	Q	57.1	82		75-125	6		20
Iron, Total	32300	113	24000	**0**	Q	26900	**0**	Q	75-125	11		20
Lead, Total	22.4	59.7	75.4	89		81.4	97		75-125	8		20
Magnesium, Total	1140	1130	2090	84		2070	81		75-125	1		20
Manganese, Total	2510	56.3	4060	**2750**	Q	4040	**2660**	Q	75-125	0		20
Nickel, Total	45.3	56.3	86.4	**73**	Q	89.9	78		75-125	4		20
Potassium, Total	505	1130	1510	89		1580	94		75-125	5		20
Selenium, Total	ND	13.5	3.64	**27**	Q	4.37	**32**	Q	75-125	18		20
Silver, Total	ND	5.63	5.21	92		5.28	92		75-125	1		20

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 46 (30-32)	QC Batch ID: WG2133427-7					WG2133427-8			QC Sample: L2565410-46		Client ID:	FROG-SS-122
Sodium, Total	ND	1130	1200	106		1260	110		75-125	5		20
Thallium, Total	ND	13.5	12.6	93		13.1	95		75-125	4		20
Vanadium, Total	46.9	56.3	86.5	**70**	Q	92.5	79		75-125	7		20
Zinc, Total	51.4	56.3	90.7	**70**	Q	97.3	80		75-125	7		20
Total Metals - Mansfield Lab Associated sample(s): 46 (30-32)	QC Batch ID: WG2133441-3					WG2133441-4			QC Sample: L2565410-46		Client ID:	FROG-SS-122
Mercury, Total	0.142	2.4	2.46	96		2.07	98		80-120	17		20
Total Metals - Mansfield Lab Associated sample(s): 46	QC Batch ID: WG2133441-5					WG2133441-6			QC Sample: L2566299-07		Client ID:	MS Sample
Mercury, Total	ND	1.82	1.79	98		1.62	97		80-120	10		20

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 52 QC Batch ID: WG2133982-3 WG2133982-4 QC Sample: L2567356-04 Client ID: MS Sample												
Aluminum, Total	4840	227	5400	**247**	Q	6380	**682**	Q	75-125	17		20
Antimony, Total	ND	56.7	34.1	**60**	Q	31.0	**55**	Q	75-125	10		20
Arsenic, Total	0.954J	13.6	13.7	101		13.7	101		75-125	0		20
Barium, Total	34.0	227	257	98		264	102		75-125	3		20
Beryllium, Total	0.210J	5.67	5.87	104		5.92	105		75-125	1		20
Cadmium, Total	ND	6.01	5.82	97		5.82	97		75-125	0		20
Calcium, Total	1350	1130	2510	102		2660	116		75-125	6		20
Chromium, Total	8.66	22.7	31.2	99		32.8	107		75-125	5		20
Cobalt, Total	3.19	56.7	58.2	97		58.6	98		75-125	1		20
Copper, Total	3.57	28.3	32.2	101		33.0	104		75-125	2		20
Iron, Total	7030	113	6930	**0**	Q	7870	**744**	Q	75-125	13		20
Lead, Total	2.68J	60.1	62.5	104		62.9	105		75-125	1		20
Magnesium, Total	1130	1130	2260	100		2400	112		75-125	6		20
Manganese, Total	78.0	56.7	128	88		146	120		75-125	13		20
Nickel, Total	6.71	56.7	62.7	99		63.4	100		75-125	1		20
Potassium, Total	220J	1130	1330	117		1360	120		75-125	2		20
Selenium, Total	ND	13.6	13.6	100		13.4	99		75-125	1		20
Silver, Total	ND	5.67	5.67	100		5.59	99		75-125	1		20
Sodium, Total	ND	1130	1200	106		1190	105		75-125	1		20

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 52 QC Batch ID: WG2133982-3 WG2133982-4 QC Sample: L2567356-04 Client ID: MS Sample												
Thallium, Total	ND	13.6	13.9	102		13.6	100		75-125	2		20
Vanadium, Total	10.6	56.7	68.5	102		69.3	104		75-125	1		20
Zinc, Total	15.6	56.7	71.1	98		73.3	102		75-125	3		20

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 52 (FLOOR)	QC Batch ID: WG2133982-7	WG2133982-8	QC Sample: L2565410-52	Client ID: FROG-SS-125								
Aluminum, Total	2150	158	2090	**0**	Q	1960	**0**	Q	75-125	6		20
Antimony, Total	ND	39.4	ND	**0**	Q	16.6J	**42**	Q	75-125	NC		20
Arsenic, Total	6.01	9.46	15.0	95		14.7	92		75-125	2		20
Barium, Total	252	158	401	94		393	89		75-125	2		20
Beryllium, Total	ND	3.94	3.83	97		3.84	97		75-125	0		20
Cadmium, Total	0.268J	4.18	4.17	100		4.16	99		75-125	0		20
Calcium, Total	2180	788	2780	76		2850	85		75-125	2		20
Chromium, Total	244	15.8	277	**209**	Q	248	**25**	Q	75-125	11		20
Cobalt, Total	50.1	39.4	83.7	85		79.0	**73**	Q	75-125	6		20
Copper, Total	125	19.7	135	**51**	Q	141	81		75-125	4		20
Iron, Total	41600	78.8	43700	**2660**	Q	40000	**0**	Q	75-125	9		20
Lead, Total	17.6J	41.8	64.0	**153**	Q	63.2	**151**	Q	75-125	1		20
Magnesium, Total	121000	788	113000	**0**	Q	100000	**0**	Q	75-125	12		20
Manganese, Total	6430	39.4	6910	**1220**	Q	6610	**456**	Q	75-125	4		20
Nickel, Total	1130	39.4	1080	**0**	Q	965	**0**	Q	75-125	11		20
Potassium, Total	306J	788	1110	**141**	Q	1100	**139**	Q	75-125	1		20
Selenium, Total	ND	9.46	9.68	102		8.89	94		75-125	9		20
Silver, Total	ND	3.94	4.96	**126**	Q	4.62	117		75-125	7		20

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 52 (FLOOR)	QC Batch ID: WG2133982-7					WG2133982-8	QC Sample: L2565410-52		Client ID: FROG-SS-125			
Sodium, Total	4780	788	5770	**126**	Q	5580	101		75-125	3		20
Thallium, Total	ND	9.46	8.14	86		8.80	93		75-125	8		20
Vanadium, Total	11.0	39.4	50.8	101		50.2	99		75-125	1		20
Zinc, Total	112	39.4	149	94		137	**63**	Q	75-125	8		20
Total Metals - Mansfield Lab Associated sample(s): 52	QC Batch ID: WG2133983-3					WG2133983-4	QC Sample: L2567356-04		Client ID: MS Sample			
Mercury, Total	ND	2.08	2.27	109		2.00	107		80-120	13		20
Total Metals - Mansfield Lab Associated sample(s): 52 (FLOOR)	QC Batch ID: WG2133983-5					WG2133983-6	QC Sample: L2565410-52		Client ID: FROG-SS-125			
Mercury, Total	ND	1.33	1.38	104		1.38	105		80-120	0		20
Total Metals - Mansfield Lab Associated sample(s): 58	QC Batch ID: WG2135427-3					WG2135427-4	QC Sample: L2568158-04		Client ID: MS Sample			
Mercury, Total	0.00011J	0.005	0.00517	104		0.00524	105		75-125	1		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: FROG SWITCH PHASE II

Project Number: Not Specified

Lab Number: L2565410

Report Date: 11/21/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 14,27 QC Batch ID: WG2130440-8 QC Sample: L2565278-11 Client ID: DUP Sample						
Calcium, Total	68.7	69.1	mg/l	1		20
Iron, Total	0.0224J	0.0171J	mg/l	NC		20
Manganese, Total	0.0455	0.0454	mg/l	0		20
Sodium, Total	84.7	85.0	mg/l	0		20
Total Metals - Mansfield Lab Associated sample(s): 14,27 QC Batch ID: WG2130441-4 QC Sample: L2565011-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 39 QC Batch ID: WG2131755-4 QC Sample: L2565500-01 Client ID: DUP Sample						
Arsenic, Total	ND	ND	mg/l	NC		20
Barium, Total	0.0175	0.0183	mg/l	4		20
Calcium, Total	41.7	42.1	mg/l	1		20
Iron, Total	0.170	0.173	mg/l	2		20
Magnesium, Total	4.36	4.48	mg/l	3		20
Manganese, Total	0.338	0.344	mg/l	2		20
Potassium, Total	6.64	6.74	mg/l	1		20
Sodium, Total	4.15	4.11	mg/l	1		20
Total Metals - Mansfield Lab Associated sample(s): 39 QC Batch ID: WG2131771-4 QC Sample: L2565698-06 Client ID: DUP Sample						
Mercury, Total	0.00018J	0.00020	mg/l	NC		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: FROG SWITCH PHASE II

Project Number: Not Specified

Lab Number: L2565410

Report Date: 11/21/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 50,57 QC Batch ID: WG2131894-4 QC Sample: L2566727-06 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 58 QC Batch ID: WG2131903-4 QC Sample: L2558607-46 Client ID: DUP Sample						
Silver, Total	ND	ND	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 44-45,47-49,51,53-54,56 QC Batch ID: WG2132823-4 QC Sample: L2567586-01 Client ID: DUP Sample						
Arsenic, Total	51.9	53.8	mg/kg	4		20
Barium, Total	57.6	64.0	mg/kg	11		20
Cadmium, Total	0.118J	ND	mg/kg	NC		20
Chromium, Total	45.5	50.2	mg/kg	10		20
Lead, Total	99.1	120	mg/kg	19		20
Selenium, Total	1.83J	3.08	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Total Metals - Mansfield Lab Associated sample(s): 44-45,47-49,51,53-54,56 QC Batch ID: WG2132824-4 QC Sample: L2567586-01 Client ID: DUP Sample						
Mercury, Total	0.090J	0.096J	mg/kg	NC		20

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 14,27 QC Batch ID: WG2130440-6 QC Sample: L2565315-11 Client ID: DUP Sample						
Iron, Total	6.47	6.49	mg/l	0		20
Total Metals - Mansfield Lab Associated sample(s): 20-26 QC Batch ID: WG2131466-6 QC Sample: L2565580-08 Client ID: DUP Sample						
Aluminum, Total	638	654	mg/kg	3		20
Iron, Total	1470	1540	mg/kg	5		20
Total Metals - Mansfield Lab Associated sample(s): 44-45,47-49,51,53-54,56 QC Batch ID: WG2132823-6 QC Sample: L2567586-01 Client ID: DUP Sample						
Chromium, Total	45.5	44.8	mg/kg	2		20
Total Metals - Mansfield Lab Associated sample(s): 52 QC Batch ID: WG2133982-10 QC Sample: L2565410-52 Client ID: FROG-SS-125 (FLOOR)						
Aluminum, Total	2150	2130	mg/kg	1		20
Barium, Total	252	253	mg/kg	0		20
Calcium, Total	2180	2200	mg/kg	1		20
Chromium, Total	244	246	mg/kg	1		20
Copper, Total	125	126	mg/kg	1		20
Iron, Total	41600	42700	mg/kg	3		20
Magnesium, Total	121000	121000	mg/kg	0		20
Manganese, Total	6430	6590	mg/kg	2		20
Nickel, Total	1130	1160	mg/kg	3		20

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	Serial Dilution	Units	% D	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 52 QC Batch ID: WG2133982-6 QC Sample: L2567356-04 Client ID: DUP Sample					
Aluminum, Total	4840	4880	mg/kg	1	20
Barium, Total	34.0	34.2	mg/kg	1	20
Calcium, Total	1350	1340	mg/kg	1	20
Iron, Total	7030	7130	mg/kg	1	20
Magnesium, Total	1130	1140	mg/kg	1	20
Manganese, Total	78.0	77.6	mg/kg	1	20

INORGANICS
&
MISCELLANEOUS

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-01
Client ID: FROG-SS-103 (0-2)
Sample Location: CARLISLE, PA

Date Collected: 10/15/25 14:45
Date Received: 10/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.6		%	0.100	NA	1	-	10/16/25 13:15	121,2540G	ROI
Cyanide, Free	ND		mg/kg	1.1	0.27	1	10/21/25 21:20	10/22/25 22:26	109,9016	AT
Chromium, Hexavalent	1.28		mg/kg	0.913	0.183	1	10/21/25 10:21	10/24/25 15:18	1,7196A	RDS

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-02
Client ID: FROG-SS-103 (28-30)
Sample Location: CARLISLE, PA

Date Collected: 10/15/25 15:13
Date Received: 10/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	69.6		%	0.100	NA	1	-	10/16/25 13:15	121,2540G	ROI
Cyanide, Free	ND		mg/kg	1.4	0.34	1	10/21/25 21:20	10/22/25 22:26	109,9016	AT
Chromium, Hexavalent	ND		mg/kg	1.15	0.230	1	10/21/25 10:21	10/24/25 15:18	1,7196A	RDS

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-03
Client ID: FROG-SS-104 (0-2)
Sample Location: CARLISLE, PA

Date Collected: 10/15/25 13:43
Date Received: 10/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.8		%	0.100	NA	1	-	10/16/25 13:15	121,2540G	ROI
Cyanide, Free	ND		mg/kg	1.2	0.30	1	10/21/25 21:20	10/22/25 22:27	109,9016	AT
Chromium, Hexavalent	ND		mg/kg	1.00	0.200	1	10/21/25 10:21	10/24/25 15:18	1,7196A	RDS

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-04
Client ID: FROG-SS-104 (13-15)
Sample Location: CARLISLE, PA

Date Collected: 10/15/25 13:47
Date Received: 10/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.6		%	0.100	NA	1	-	10/16/25 13:15	121,2540G	ROI
Cyanide, Free	ND		mg/kg	1.2	0.30	1	10/21/25 21:20	10/22/25 22:28	109,9016	AT
Chromium, Hexavalent	ND		mg/kg	0.992	0.198	1	10/21/25 10:21	10/24/25 15:18	1,7196A	RDS

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-05
Client ID: FROG-SS-105 (1-3)
Sample Location: CARLISLE, PA

Date Collected: 10/15/25 11:52
Date Received: 10/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.6		%	0.100	NA	1	-	10/16/25 13:15	121,2540G	ROI
Cyanide, Free	ND		mg/kg	1.1	0.27	1	10/21/25 21:20	10/22/25 22:30	109,9016	AT
Chromium, Hexavalent	ND		mg/kg	0.913	0.183	1	10/21/25 10:21	10/24/25 15:18	1,7196A	RDS

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-06
Client ID: FROG-SS-105 (13-15)
Sample Location: CARLISLE, PA

Date Collected: 10/15/25 11:54
Date Received: 10/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	73.9		%	0.100	NA	1	-	10/16/25 13:15	121,2540G	ROI
Cyanide, Free	ND		mg/kg	1.4	0.32	1	10/21/25 21:20	10/22/25 22:30	109,9016	AT
Chromium, Hexavalent	0.244	J	mg/kg	1.08	0.216	1	10/21/25 10:21	10/24/25 15:18	1,7196A	RDS

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-07
Client ID: FROG-SS-108 (1-3)
Sample Location: CARLISLE, PA

Date Collected: 10/15/25 09:50
Date Received: 10/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.5		%	0.100	NA	1	-	10/16/25 13:15	121,2540G	ROI
Chromium, Hexavalent	ND		mg/kg	1.03	0.206	1	10/21/25 10:21	10/24/25 15:18	1,7196A	RDS

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-08
Client ID: FROG-SS-108 (5.5-7.5)
Sample Location: CARLISLE, PA

Date Collected: 10/15/25 09:56
Date Received: 10/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.0		%	0.100	NA	1	-	10/16/25 13:15	121,2540G	ROI
Chromium, Hexavalent	0.442	J	mg/kg	1.04	0.208	1	10/21/25 10:21	10/24/25 15:18	1,7196A	RDS

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-09
Client ID: FROG-SS-109 (2.5-4.5)
Sample Location: CARLISLE, PA

Date Collected: 10/15/25 09:58
Date Received: 10/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.1		%	0.100	NA	1	-	10/16/25 13:15	121,2540G	ROI
Chromium, Hexavalent	ND		mg/kg	0.974	0.195	1	10/21/25 10:21	10/24/25 15:18	1,7196A	RDS

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-10
Client ID: FROG-SS-109 (8-10)
Sample Location: CARLISLE, PA

Date Collected: 10/15/25 08:47
Date Received: 10/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.3		%	0.100	NA	1	-	10/16/25 13:15	121,2540G	ROI
Chromium, Hexavalent	0.548	J	mg/kg	0.996	0.199	1	10/21/25 10:21	10/24/25 15:18	1,7196A	RDS

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-11
Client ID: FROG-SS-110 (1.5-3.5)
Sample Location: CARLISLE, PA

Date Collected: 10/15/25 10:46
Date Received: 10/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.9		%	0.100	NA	1	-	10/16/25 13:15	121,2540G	ROI
Chromium, Hexavalent	ND		mg/kg	0.834	0.167	1	10/21/25 10:21	10/24/25 15:37	1,7196A	RDS

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-12
Client ID: FROG-SS-110 (5-7)
Sample Location: CARLISLE, PA
Sample Depth:
Matrix: Soil
Date Collected: 10/15/25 10:52
Date Received: 10/15/25
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.3		%	0.100	NA	1	-	10/16/25 13:15	121,2540G	ROI
Chromium, Hexavalent	2.58		mg/kg	0.839	0.168	1	10/21/25 10:21	10/24/25 15:37	1,7196A	RDS

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-13
Client ID: FROG-SS-DUP-101
Sample Location: CARLISLE, PA

Date Collected: 10/15/25 00:00
Date Received: 10/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.5		%	0.100	NA	1	-	10/16/25 13:15	121,2540G	ROI
Chromium, Hexavalent	0.410	J	mg/kg	0.994	0.199	1	10/21/25 10:21	10/24/25 15:37	1,7196A	RDS

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-14
Client ID: FROG-SS-FB-101
Sample Location: CARLISLE, PA

Date Collected: 10/15/25 15:30
Date Received: 10/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Free	ND		ug/l	2.00	0.544	1	10/22/25 15:25	10/22/25 22:15	109,9016	AT
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	10/16/25 13:50	10/16/25 14:12	1,7196A	DMO

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-15
Client ID: FROG-SS-118 (0-2)
Sample Location: CARLISLE, PA

Date Collected: 10/16/25 14:20
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.8		%	0.100	NA	1	-	10/17/25 14:49	121,2540G	ROI
Cyanide, Free	ND		mg/kg	1.2	0.29	1	10/21/25 21:20	10/22/25 22:39	109,9016	AT
Chromium, Hexavalent	ND		mg/kg	0.978	0.196	1	10/22/25 11:53	10/27/25 04:15	1,7196A	DTH

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-16
Client ID: FROG-SS-118 (10-12)
Sample Location: CARLISLE, PA

Date Collected: 10/16/25 14:23
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.4		%	0.100	NA	1	-	10/17/25 14:49	121,2540G	ROI
Cyanide, Free	ND		mg/kg	1.2	0.30	1	10/21/25 21:20	10/22/25 22:39	109,9016	AT
Chromium, Hexavalent	ND		mg/kg	0.995	0.199	1	10/22/25 11:53	10/27/25 04:15	1,7196A	DTH

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-17
Client ID: FROG-SS-119 (0.5-1)
Sample Location: CARLISLE, PA

Date Collected: 10/16/25 13:45
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.0		%	0.100	NA	1	-	10/17/25 14:49	121,2540G	ROI
Cyanide, Free	ND		mg/kg	1.1	0.27	1	10/21/25 21:20	10/22/25 22:40	109,9016	AT

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-18
Client ID: FROG-SS-111 (0-2)
Sample Location: CARLISLE, PA

Date Collected: 10/16/25 10:28
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.2		%	0.100	NA	1	-	10/17/25 14:49	121,2540G	ROI
Cyanide, Free	ND		mg/kg	1.1	0.27	1	10/21/25 21:20	10/22/25 22:40	109,9016	AT
Chromium, Hexavalent	ND		mg/kg	0.907	0.181	1	10/22/25 11:53	10/27/25 04:15	1,7196A	DTH

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-19
Client ID: FROG-SS-111 (11-13)
Sample Location: CARLISLE, PA

Date Collected: 10/16/25 10:30
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.1		%	0.100	NA	1	-	10/17/25 14:49	121,2540G	ROI
Cyanide, Free	ND		mg/kg	1.2	0.30	1	10/21/25 21:20	10/22/25 22:41	109,9016	AT
Chromium, Hexavalent	ND		mg/kg	0.999	0.200	1	10/22/25 11:53	10/27/25 04:15	1,7196A	DTH

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-20
Client ID: FROG-SS-112 (0-2)
Sample Location: CARLISLE, PA

Date Collected: 10/16/25 11:20
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.5		%	0.100	NA	1	-	10/17/25 14:49	121,2540G	ROI
Cyanide, Free	ND		mg/kg	1.1	0.26	1	10/21/25 21:20	10/22/25 22:41	109,9016	AT
Chromium, Hexavalent	4.51		mg/kg	0.874	0.175	1	10/22/25 11:53	10/27/25 04:15	1,7196A	DTH

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-21
Client ID: FROG-SS-112 (7-9)
Sample Location: CARLISLE, PA

Date Collected: 10/16/25 11:22
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.4		%	0.100	NA	1	-	10/17/25 14:49	121,2540G	ROI
Cyanide, Free	ND		mg/kg	1.1	0.26	1	10/21/25 21:20	10/22/25 22:43	109,9016	AT
Chromium, Hexavalent	0.184	J	mg/kg	0.866	0.173	1	10/22/25 11:53	10/27/25 04:15	1,7196A	DTH

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-22
Client ID: FROG-SS-120 (0-2)
Sample Location: CARLISLE, PA

Date Collected: 10/16/25 08:00
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.3		%	0.100	NA	1	-	10/17/25 14:49	121,2540G	ROI
Cyanide, Free	ND		mg/kg	1.1	0.26	1	10/21/25 21:20	10/22/25 22:45	109,9016	AT
Chromium, Hexavalent	ND		mg/kg	0.876	0.175	1	10/22/25 11:53	10/27/25 04:15	1,7196A	DTH

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-23
Client ID: FROG-SS-120 (2-3.5)
Sample Location: CARLISLE, PA

Date Collected: 10/16/25 08:05
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.4		%	0.100	NA	1	-	10/17/25 14:49	121,2540G	ROI
Cyanide, Free	ND		mg/kg	1.1	0.27	1	10/21/25 21:20	10/22/25 22:45	109,9016	AT
Chromium, Hexavalent	1.94		mg/kg	0.895	0.179	1	10/22/25 11:53	10/27/25 04:15	1,7196A	DTH

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-24
Client ID: FROG-SS-121 (0-2)
Sample Location: CARLISLE, PA

Date Collected: 10/16/25 09:06
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.3		%	0.100	NA	1	-	10/17/25 14:49	121,2540G	ROI
Cyanide, Free	ND		mg/kg	1.1	0.26	1	10/21/25 21:20	10/22/25 22:46	109,9016	AT
Chromium, Hexavalent	ND		mg/kg	0.876	0.175	1	10/22/25 11:53	10/27/25 04:15	1,7196A	DTH

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-25
Client ID: FROG-SS-121 (22-24)
Sample Location: CARLISLE, PA

Date Collected: 10/16/25 09:16
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.9		%	0.100	NA	1	-	10/17/25 14:49	121,2540G	ROI
Cyanide, Free	ND		mg/kg	1.2	0.28	1	10/21/25 21:20	10/22/25 22:47	109,9016	AT
Chromium, Hexavalent	0.393	J	mg/kg	0.954	0.191	1	10/22/25 11:53	10/27/25 04:15	1,7196A	DTH

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-26
Client ID: FROG-SS-DUP-102
Sample Location: CARLISLE, PA

Date Collected: 10/16/25 00:00
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.7		%	0.100	NA	1	-	10/17/25 14:49	121,2540G	ROI
Cyanide, Free	ND		mg/kg	1.2	0.30	1	10/21/25 21:20	10/22/25 22:49	109,9016	AT
Chromium, Hexavalent	0.351	J	mg/kg	1.00	0.201	1	10/22/25 11:53	10/27/25 04:35	1,7196A	DTH

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-27
Client ID: FROG-SS-FB-102
Sample Location: CARLISLE, PA

Date Collected: 10/16/25 13:10
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Free	ND		ug/l	2.00	0.544	1	10/22/25 15:25	10/22/25 22:16	109,9016	AT
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	10/17/25 11:25	10/17/25 11:49	1,7196A	DMO

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-28
Client ID: FROG-SS-101 (0-2)
Sample Location: CARLISLE, PA

Date Collected: 10/17/25 12:40
Date Received: 10/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.5		%	0.100	NA	1	-	10/18/25 14:33	121,2540G	ROI
Cyanide, Free	ND		mg/kg	1.2	0.28	1	10/23/25 21:45	10/24/25 22:35	109,9016	AT
Chromium, Hexavalent	0.911	J	mg/kg	0.947	0.189	1	10/22/25 11:53	10/27/25 04:35	1,7196A	DTH

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-29
Client ID: FROG-SS-101 (3-5)
Sample Location: CARLISLE, PA

Date Collected: 10/17/25 12:41
Date Received: 10/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.2		%	0.100	NA	1	-	10/18/25 14:33	121,2540G	ROI
Cyanide, Free	ND		mg/kg	1.3	0.30	1	10/23/25 21:45	10/24/25 22:35	109,9016	AT
Chromium, Hexavalent	ND		mg/kg	1.01	0.202	1	10/22/25 11:53	10/27/25 04:35	1,7196A	DTH

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-30
Client ID: FROG-SS-102 (0-2)
Sample Location: CARLISLE, PA

Date Collected: 10/17/25 13:45
Date Received: 10/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.2		%	0.100	NA	1	-	10/18/25 14:33	121,2540G	ROI
Cyanide, Free	ND		mg/kg	1.1	0.27	1	10/23/25 21:45	10/24/25 22:36	109,9016	AT
Chromium, Hexavalent	ND		mg/kg	0.897	0.179	1	10/22/25 11:53	10/27/25 04:35	1,7196A	DTH

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-31
Client ID: FROG-SS-102 (19-21)
Sample Location: CARLISLE, PA

Date Collected: 10/17/25 13:51
Date Received: 10/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.1		%	0.100	NA	1	-	10/18/25 14:33	121,2540G	ROI
Cyanide, Free	ND		mg/kg	1.3	0.30	1	10/23/25 21:45	10/24/25 22:36	109,9016	AT
Chromium, Hexavalent	ND		mg/kg	1.01	0.202	1	10/22/25 11:53	10/27/25 04:35	1,7196A	DTH

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-32
Client ID: FROG-SS-115 (0-2)
Sample Location: CARLISLE, PA

Date Collected: 10/17/25 10:43
Date Received: 10/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.8		%	0.100	NA	1	-	10/18/25 14:33	121,2540G	ROI
Cyanide, Free	ND		mg/kg	1.1	0.26	1	10/23/25 21:45	10/24/25 22:37	109,9016	AT
Chromium, Hexavalent	ND		mg/kg	0.871	0.174	1	10/22/25 11:53	10/27/25 04:35	1,7196A	DTH

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-33
Client ID: FROG-SS-115 (7.5-9.5)
Sample Location: CARLISLE, PA

Date Collected: 10/17/25 10:45
Date Received: 10/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.0		%	0.100	NA	1	-	10/18/25 14:33	121,2540G	ROI
Cyanide, Free	ND		mg/kg	1.2	0.30	1	10/23/25 21:45	10/24/25 22:37	109,9016	AT
Chromium, Hexavalent	ND		mg/kg	0.988	0.198	1	10/22/25 11:53	10/27/25 04:35	1,7196A	DTH

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-34
Client ID: FROG-SS-116 (0-2)
Sample Location: CARLISLE, PA

Date Collected: 10/17/25 09:42
Date Received: 10/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.1		%	0.100	NA	1	-	10/18/25 14:33	121,2540G	ROI
Cyanide, Free	ND		mg/kg	1.1	0.26	1	10/23/25 21:45	10/24/25 22:38	109,9016	AT
Chromium, Hexavalent	14.6		mg/kg	0.869	0.174	1	10/22/25 11:53	10/27/25 04:35	1,7196A	DTH

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-35
Client ID: FROG-SS-116 (18.5-20.5)
Sample Location: CARLISLE, PA

Date Collected: 10/17/25 09:44
Date Received: 10/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.0		%	0.100	NA	1	-	10/18/25 14:33	121,2540G	ROI
Cyanide, Free	ND		mg/kg	1.2	0.30	1	10/23/25 21:45	10/24/25 22:39	109,9016	AT
Chromium, Hexavalent	0.840	J	mg/kg	0.988	0.198	1	10/22/25 11:53	10/27/25 04:35	1,7196A	DTH

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-36
Client ID: FROG-SS-117 (0-2)
Sample Location: CARLISLE, PA

Date Collected: 10/17/25 08:14
Date Received: 10/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.5		%	0.100	NA	1	-	10/18/25 14:33	121,2540G	ROI
Cyanide, Free	ND		mg/kg	1.0	0.25	1	10/23/25 21:45	10/24/25 22:42	109,9016	AT
Chromium, Hexavalent	ND		mg/kg	0.846	0.169	1	10/22/25 11:53	10/27/25 04:35	1,7196A	DTH

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-37
Client ID: FROG-SS-117 (11-13)
Sample Location: CARLISLE, PA

Date Collected: 10/17/25 08:22
Date Received: 10/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.9		%	0.100	NA	1	-	10/18/25 14:33	121,2540G	ROI
Cyanide, Free	ND		mg/kg	1.2	0.28	1	10/23/25 21:45	10/24/25 22:42	109,9016	AT
Chromium, Hexavalent	1.71		mg/kg	0.931	0.186	1	10/22/25 13:45	10/23/25 13:06	1,7196A	RDS

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-38
Client ID: FROG-SS-DUP-103
Sample Location: CARLISLE, PA

Date Collected: 10/17/25 00:00
Date Received: 10/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.4		%	0.100	NA	1	-	10/18/25 14:52	121,2540G	ROI
Cyanide, Free	ND		mg/kg	1.0	0.25	1	10/23/25 21:45	10/24/25 22:43	109,9016	AT
Chromium, Hexavalent	0.629	J	mg/kg	0.838	0.168	1	10/22/25 13:45	10/23/25 13:06	1,7196A	RDS

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-39
Client ID: FROG-SS-FB-103
Sample Location: CARLISLE, PA

Date Collected: 10/17/25 12:10
Date Received: 10/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Free	ND		ug/l	2.00	0.544	1	10/24/25 15:05	10/24/25 22:22	109,9016	AT
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	10/18/25 07:20	10/18/25 07:36	1,7196A	DMO

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-40
Client ID: FROG-SS-114 (0-2)
Sample Location: CARLISLE, PA
Sample Depth:
Matrix: Soil

Date Collected: 10/20/25 08:41
Date Received: 10/20/25
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.2		%	0.100	NA	1	-	10/21/25 14:09	121,2540G	ROI

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-41
Client ID: FROG-SS-114 (17-19)
Sample Location: CARLISLE, PA

Date Collected: 10/20/25 08:44
Date Received: 10/20/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.2		%	0.100	NA	1	-	10/21/25 14:09	121,2540G	ROI

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-42
Client ID: FROG-SS-113 (0-2)
Sample Location: CARLISLE, PA
Sample Depth:
Matrix: Soil
Date Collected: 10/20/25 07:50
Date Received: 10/20/25
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.8		%	0.100	NA	1	-	10/21/25 14:09	121,2540G	ROI

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-43
Client ID: FROG-SS-113 (6-8)
Sample Location: CARLISLE, PA
Sample Depth:
Matrix: Soil

Date Collected: 10/20/25 07:52
Date Received: 10/20/25
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.4		%	0.100	NA	1	-	10/21/25 14:09	121,2540G	ROI

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-44
Client ID: FROG-SS-119 (0-0.5)
Sample Location: CARLISLE, PA

Date Collected: 10/20/25 14:00
Date Received: 10/20/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.1		%	0.100	NA	1	-	10/21/25 12:59	121,2540G	ROI
Cyanide, Free	ND		mg/kg	1.1	0.26	1	10/27/25 20:40	10/28/25 22:35	109,9016	AT
Chromium, Hexavalent	4.20		mg/kg	0.878	0.176	1	10/23/25 14:40	10/24/25 09:28	1,7196A	RDS

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-45
Client ID: FROG-SS-122 (1.5-3.5)
Sample Location: CARLISLE, PA

Date Collected: 10/20/25 10:45
Date Received: 10/20/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.4		%	0.100	NA	1	-	10/21/25 12:59	121,2540G	ROI
Cyanide, Free	ND		mg/kg	1.2	0.28	1	10/27/25 20:40	10/28/25 22:35	109,9016	AT
Chromium, Hexavalent	0.853	J	mg/kg	0.948	0.190	1	10/23/25 14:40	10/24/25 09:28	1,7196A	RDS

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-46
Client ID: FROG-SS-122 (30-32)
Sample Location: CARLISLE, PA

Date Collected: 10/20/25 11:00
Date Received: 10/20/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	67.3		%	0.100	NA	1	-	10/21/25 12:59	121,2540G	ROI
Cyanide, Free	ND		mg/kg	1.5	0.36	1	10/27/25 20:40	10/28/25 22:36	109,9016	AT
Chromium, Hexavalent	0.431	J	mg/kg	1.19	0.238	1	10/23/25 14:40	10/24/25 09:28	1,7196A	RDS

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-47
Client ID: FROG-SS-123 (1-3)
Sample Location: CARLISLE, PA

Date Collected: 10/20/25 12:35
Date Received: 10/20/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.7		%	0.100	NA	1	-	10/21/25 13:59	121,2540G	ROI
Cyanide, Free	ND		mg/kg	1.2	0.28	1	10/27/25 20:40	10/28/25 22:38	109,9016	AT
Chromium, Hexavalent	0.862	J	mg/kg	0.944	0.189	1	10/23/25 14:40	10/24/25 09:28	1,7196A	RDS

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-48
Client ID: FROG-SS-123 (17-19)
Sample Location: CARLISLE, PA

Date Collected: 10/20/25 12:42
Date Received: 10/20/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.5		%	0.100	NA	1	-	10/21/25 12:59	121,2540G	ROI
Cyanide, Free	ND		mg/kg	1.2	0.30	1	10/27/25 20:40	10/28/25 22:38	109,9016	AT
Chromium, Hexavalent	0.422	J	mg/kg	0.994	0.199	1	10/23/25 14:40	10/24/25 09:28	1,7196A	RDS

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-49
Client ID: FROG-SS-DUP-104
Sample Location: CARLISLE, PA

Date Collected: 10/20/25 00:00
Date Received: 10/20/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.8		%	0.100	NA	1	-	10/21/25 12:59	121,2540G	ROI
Cyanide, Free	ND		mg/kg	1.2	0.30	1	10/27/25 20:40	10/28/25 22:39	109,9016	AT
Chromium, Hexavalent	0.346	J	mg/kg	0.990	0.198	1	10/23/25 14:40	10/24/25 09:28	1,7196A	RDS

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-50
Client ID: FROG-SS-FB-104
Sample Location: CARLISLE, PA

Date Collected: 10/20/25 11:47
Date Received: 10/20/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Free	ND		ug/l	2.00	0.544	1	10/28/25 15:20	10/28/25 22:24	109,9016	AT
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	10/21/25 06:00	10/21/25 06:19	1,7196A	CAR

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-51
Client ID: FROG-SS-124 (FLOOR)
Sample Location: CARLISLE, PA

Date Collected: 10/21/25 10:15
Date Received: 10/21/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.5		%	0.100	NA	1	-	10/22/25 11:11	121,2540G	ROI
Cyanide, Free	ND		mg/kg	1.0	0.25	1	10/27/25 20:40	10/28/25 22:46	109,9016	AT
Chromium, Hexavalent	0.419	J	mg/kg	0.838	0.168	1	10/23/25 14:40	10/24/25 09:39	1,7196A	RDS

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-52
Client ID: FROG-SS-125 (FLOOR)
Sample Location: CARLISLE, PA

Date Collected: 10/21/25 11:11
Date Received: 10/21/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	98.8		%	0.100	NA	1	-	10/22/25 11:11	121,2540G	ROI
Cyanide, Free	ND		mg/kg	1.0	0.24	1	10/27/25 20:40	10/28/25 22:47	109,9016	AT
Chromium, Hexavalent	0.233	J	mg/kg	0.810	0.162	1	10/23/25 14:40	10/24/25 09:39	1,7196A	RDS

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-53
Client ID: FROG-SS-126 (FLOOR)
Sample Location: CARLISLE, PA

Date Collected: 10/21/25 12:30
Date Received: 10/21/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	98.7		%	0.100	NA	1	-	10/22/25 11:11	121,2540G	ROI
Cyanide, Free	ND		mg/kg	1.0	0.24	1	10/27/25 20:40	10/28/25 22:49	109,9016	AT
Chromium, Hexavalent	ND		mg/kg	0.810	0.162	1	10/23/25 14:40	10/24/25 09:39	1,7196A	RDS

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-54
Client ID: FROG-SS-127 (FLOOR)
Sample Location: CARLISLE, PA

Date Collected: 10/21/25 13:11
Date Received: 10/21/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	99.2		%	0.100	NA	1	-	10/22/25 11:11	121,2540G	ROI
Cyanide, Free	ND		mg/kg	1.0	0.24	1	10/27/25 20:40	10/28/25 22:49	109,9016	AT
Chromium, Hexavalent	0.222	J	mg/kg	0.806	0.161	1	10/23/25 14:40	10/24/25 09:39	1,7196A	RDS

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-56
Client ID: FROG-SS-DUP-105
Sample Location: CARLISLE, PA

Date Collected: 10/21/25 00:00
Date Received: 10/21/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	99.1		%	0.100	NA	1	-	10/22/25 11:11	121,2540G	ROI
Cyanide, Free	ND		mg/kg	1.0	0.24	1	10/27/25 20:40	10/28/25 22:50	109,9016	AT
Chromium, Hexavalent	ND		mg/kg	0.807	0.161	1	10/23/25 14:40	10/24/25 09:39	1,7196A	RDS

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-57
Client ID: FROG-SS-FB-105
Sample Location: CARLISLE, PA

Date Collected: 10/21/25 12:05
Date Received: 10/21/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Free	ND		ug/l	2.00	0.544	1	10/28/25 15:20	10/28/25 22:25	109,9016	AT
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	10/22/25 08:15	10/22/25 08:27	1,7196A	DMO

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

SAMPLE RESULTS

Lab ID: L2565410-58
Client ID: FROG-SS-EB
Sample Location: CARLISLE, PA

Date Collected: 10/21/25 10:36
Date Received: 10/21/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Free	ND		ug/l	2.00	0.544	1	10/28/25 15:20	10/28/25 22:25	109,9016	AT
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	10/22/25 08:10	10/22/25 08:23	1,7196A	DMO

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 14 Batch: WG2128681-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	10/16/25 13:50	10/16/25 14:11	1,7196A	DMO
General Chemistry - Westborough Lab for sample(s): 27 Batch: WG2129248-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	10/17/25 11:25	10/17/25 11:47	1,7196A	DMO
General Chemistry - Westborough Lab for sample(s): 39 Batch: WG2129500-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	10/18/25 07:20	10/18/25 07:34	1,7196A	DMO
General Chemistry - Westborough Lab for sample(s): 50 Batch: WG2130428-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	10/21/25 06:00	10/21/25 06:18	1,7196A	CAR
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG2130459-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	10/21/25 10:21	10/24/25 15:18	1,7196A	RDS
General Chemistry - Westborough Lab for sample(s): 11-13 Batch: WG2130460-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	10/21/25 10:21	10/24/25 15:37	1,7196A	RDS
General Chemistry - Westborough Lab for sample(s): 01-06 Batch: WG2130915-1										
Cyanide, Free	ND		mg/kg	1.0	0.24	1	10/21/25 21:20	10/22/25 22:24	109,9016	AT
General Chemistry - Westborough Lab for sample(s): 15-26 Batch: WG2130916-1										
Cyanide, Free	ND		mg/kg	1.0	0.24	1	10/21/25 21:20	10/22/25 22:24	109,9016	AT
General Chemistry - Westborough Lab for sample(s): 15-16,18-25 Batch: WG2131028-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	10/22/25 11:53	10/27/25 04:15	1,7196A	DTH
General Chemistry - Westborough Lab for sample(s): 26,28-36 Batch: WG2131029-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	10/22/25 11:53	10/27/25 04:35	1,7196A	DTH
General Chemistry - Westborough Lab for sample(s): 57 Batch: WG2131038-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	10/22/25 08:15	10/22/25 08:26	1,7196A	DMO
General Chemistry - Westborough Lab for sample(s): 37-38 Batch: WG2131251-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	10/22/25 13:45	10/23/25 13:06	1,7196A	RDS
General Chemistry - Westborough Lab for sample(s): 14,27 Batch: WG2131375-1										
Cyanide, Free	ND		ug/l	2.00	0.544	1	10/22/25 15:25	10/22/25 22:12	109,9016	AT
General Chemistry - Westborough Lab for sample(s): 44-49 Batch: WG2131711-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	10/23/25 14:40	10/24/25 09:28	1,7196A	RDS

Project Name: FROG SWITCH PHASE II **Lab Number:** L2565410

Project Number: Not Specified **Report Date:** 11/21/25

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 51-54,56 Batch: WG2131712-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	10/23/25 14:40	10/24/25 09:39	1,7196A	RDS
General Chemistry - Westborough Lab for sample(s): 58 Batch: WG2131946-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	10/22/25 08:10	10/22/25 08:21	1,7196A	DMO
General Chemistry - Westborough Lab for sample(s): 28-38 Batch: WG2132083-1										
Cyanide, Free	ND		mg/kg	1.0	0.24	1	10/23/25 21:45	10/24/25 22:32	109,9016	AT
General Chemistry - Westborough Lab for sample(s): 39 Batch: WG2132440-1										
Cyanide, Free	ND		ug/l	2.00	0.544	1	10/24/25 15:05	10/24/25 22:18	109,9016	AT
General Chemistry - Westborough Lab for sample(s): 44-49 Batch: WG2133431-1										
Cyanide, Free	ND		mg/kg	1.0	0.24	1	10/27/25 20:40	10/28/25 22:32	109,9016	AT
General Chemistry - Westborough Lab for sample(s): 51-54,56 Batch: WG2133432-1										
Cyanide, Free	ND		mg/kg	1.0	0.24	1	10/27/25 20:40	10/28/25 22:44	109,9016	AT
General Chemistry - Westborough Lab for sample(s): 50,57-58 Batch: WG2133900-1										
Cyanide, Free	ND		ug/l	2.00	0.544	1	10/28/25 15:20	10/28/25 22:20	109,9016	AT

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 14 Batch: WG2128681-2								
Chromium, Hexavalent	93		-		85-115	-		
General Chemistry - Westborough Lab Associated sample(s): 27 Batch: WG2129248-2								
Chromium, Hexavalent	96		-		85-115	-		
General Chemistry - Westborough Lab Associated sample(s): 39 Batch: WG2129500-2								
Chromium, Hexavalent	95		-		85-115	-		
General Chemistry - Westborough Lab Associated sample(s): 50 Batch: WG2130428-2								
Chromium, Hexavalent	98		-		85-115	-		
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG2130459-2								
Chromium, Hexavalent	99		-		80-120	-		
General Chemistry - Westborough Lab Associated sample(s): 11-13 Batch: WG2130460-2								
Chromium, Hexavalent	99		-		80-120	-		
General Chemistry - Westborough Lab Associated sample(s): 01-06 Batch: WG2130915-2								
Cyanide, Free	83		-			-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 15-26 Batch: WG2130916-2								
Cyanide, Free	83		-			-		
General Chemistry - Westborough Lab Associated sample(s): 15-16,18-25 Batch: WG2131028-2								
Chromium, Hexavalent	107		-		80-120	-		
General Chemistry - Westborough Lab Associated sample(s): 26,28-36 Batch: WG2131029-2								
Chromium, Hexavalent	107		-		80-120	-		
General Chemistry - Westborough Lab Associated sample(s): 57 Batch: WG2131038-2								
Chromium, Hexavalent	97		-		85-115	-		
General Chemistry - Westborough Lab Associated sample(s): 37-38 Batch: WG2131251-2								
Chromium, Hexavalent	98		-		80-120	-		
General Chemistry - Westborough Lab Associated sample(s): 14,27 Batch: WG2131375-2								
Cyanide, Free	87		-		75-125	-		
General Chemistry - Westborough Lab Associated sample(s): 44-49 Batch: WG2131711-2								
Chromium, Hexavalent	92		-		80-120	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 51-54,56 Batch: WG2131712-2								
Chromium, Hexavalent	92		-		80-120	-		
General Chemistry - Westborough Lab Associated sample(s): 58 Batch: WG2131946-2								
Chromium, Hexavalent	96		-		85-115	-		
General Chemistry - Westborough Lab Associated sample(s): 28-38 Batch: WG2132083-2								
Cyanide, Free	83		-			-		
General Chemistry - Westborough Lab Associated sample(s): 39 Batch: WG2132440-2								
Cyanide, Free	88		-		75-125	-		
General Chemistry - Westborough Lab Associated sample(s): 44-49 Batch: WG2133431-2								
Cyanide, Free	83		-			-		
General Chemistry - Westborough Lab Associated sample(s): 51-54,56 Batch: WG2133432-2								
Cyanide, Free	83		-			-		
General Chemistry - Westborough Lab Associated sample(s): 50,57-58 Batch: WG2133900-2								
Cyanide, Free	85		-		75-125	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 14 QC Batch ID: WG2128681-4 QC Sample: L2565410-14 Client ID: FROG-SS-FB-101												
Chromium, Hexavalent	ND	0.1	0.099	99		-	-		85-115	-		
General Chemistry - Westborough Lab Associated sample(s): 27 QC Batch ID: WG2129248-4 QC Sample: L2565410-27 Client ID: FROG-SS-FB-102												
Chromium, Hexavalent	ND	0.1	0.101	101		-	-		85-115	-		
General Chemistry - Westborough Lab Associated sample(s): 39 QC Batch ID: WG2129500-4 QC Sample: L2565410-39 Client ID: FROG-SS-FB-103												
Chromium, Hexavalent	ND	0.1	0.101	101		-	-		85-115	-		
General Chemistry - Westborough Lab Associated sample(s): 50 QC Batch ID: WG2130428-4 QC Sample: L2565410-50 Client ID: FROG-SS-FB-104												
Chromium, Hexavalent	ND	0.1	0.104	104		-	-		85-115	-		
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG2130459-4 WG2130459-5 QC Sample: L2565410-04 Client ID: FROG-SS-104 (13-15)												
Chromium, Hexavalent	ND	1450	1430	98		1100	100		75-125	2		20
General Chemistry - Westborough Lab Associated sample(s): 11-13 QC Batch ID: WG2130460-4 QC Sample: L2565410-11 Client ID: FROG-SS-110 (1.5-3.5)												
Chromium, Hexavalent	ND	1080	857	80		-	-		75-125	-		
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG2130915-3 WG2130915-4 QC Sample: L2565410-04 Client ID: FROG-SS-104 (13-15)												
Cyanide, Free	ND	28.21	18	66		18	63			0		
General Chemistry - Westborough Lab Associated sample(s): 15-26 QC Batch ID: WG2130916-3 WG2130916-4 QC Sample: L2565410-25 Client ID: FROG-SS-121 (22-24)												
Cyanide, Free	ND	25.29	15	59		14	56			7		

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 15-16,18-25 QC Batch ID: WG2131028-4 WG2131028-5 QC Sample: L2565410-25 Client ID: FROG-SS-121 (22-24)												
Chromium, Hexavalent	0.393J	1360	1310	96		1340	97		75-125	2		20
General Chemistry - Westborough Lab Associated sample(s): 26,28-36 QC Batch ID: WG2131029-4 WG2131029-5 QC Sample: L2565410-35 Client ID: FROG-SS-116 (18.5-20.5)												
Chromium, Hexavalent	0.840J	1740	1620	93		1290	87		75-125	7		20
General Chemistry - Westborough Lab Associated sample(s): 57 QC Batch ID: WG2131038-4 QC Sample: L2565410-57 Client ID: FROG-SS-FB-105												
Chromium, Hexavalent	ND	0.1	0.101	101		-	-		85-115	-		
General Chemistry - Westborough Lab Associated sample(s): 37-38 QC Batch ID: WG2131251-4 QC Sample: L2565410-38 Client ID: FROG-SS-DUP-103												
Chromium, Hexavalent	0.629J	1060	997	94		-	-		75-125	-		
General Chemistry - Westborough Lab Associated sample(s): 14,27 QC Batch ID: WG2131375-3 QC Sample: L2565410-14 Client ID: FROG-SS-FB-101												
Cyanide, Free	ND	50	41.3	83		-	-		70-130	-		
General Chemistry - Westborough Lab Associated sample(s): 44-49 QC Batch ID: WG2131711-4 WG2131711-5 QC Sample: L2565410-46 Client ID: FROG-SS-122 (30-32)												
Chromium, Hexavalent	0.431J	2080	1850	89		2150	106		75-125	15		20
General Chemistry - Westborough Lab Associated sample(s): 51-54,56 QC Batch ID: WG2131712-4 WG2131712-5 QC Sample: L2565410-52 Client ID: FROG-SS-125 (FLOOR)												
Chromium, Hexavalent	0.233J	1370	1350	98		1140	97		75-125	1		20

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 58 QC Batch ID: WG2131946-4 QC Sample: L2565410-58 Client ID: FROG-SS-EB												
Chromium, Hexavalent	ND	0.1	0.101	101		-	-		85-115	-		
General Chemistry - Westborough Lab Associated sample(s): 28-38 QC Batch ID: WG2132083-3 WG2132083-4 QC Sample: L2565410-35 Client ID: FROG-SS-116 (18.5-20.5)												
Cyanide, Free	ND	26.23	15	59		15	57			3		
General Chemistry - Westborough Lab Associated sample(s): 39 QC Batch ID: WG2132440-3 QC Sample: L2565410-39 Client ID: FROG-SS-FB-103												
Cyanide, Free	ND	50	41.2	82		-	-		70-130	-		
General Chemistry - Westborough Lab Associated sample(s): 44-49 QC Batch ID: WG2133431-3 WG2133431-4 QC Sample: L2565410-46 Client ID: FROG-SS-122 (30-32)												
Cyanide, Free	ND	36.67	21	59		20	56			5		
General Chemistry - Westborough Lab Associated sample(s): 51-54,56 QC Batch ID: WG2133432-3 WG2133432-4 QC Sample: L2565410-52 Client ID: FROG-SS-125 (FLOOR)												
Cyanide, Free	ND	21.73	14	64		13	62			3		
General Chemistry - Westborough Lab Associated sample(s): 50,57-58 QC Batch ID: WG2133900-3 QC Sample: L2565410-50 Client ID: FROG-SS-FB-104												
Cyanide, Free	ND	50	40.8	82		-	-		70-130	-		

Lab Duplicate Analysis

Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG2128622-1 QC Sample: L2565121-04 Client ID: DUP Sample						
Solids, Total	85.8	84.4	%	2		10
General Chemistry - Westborough Lab Associated sample(s): 14 QC Batch ID: WG2128681-3 QC Sample: L2565410-14 Client ID: FROG-SS-FB-101						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 15-26 (22-24) QC Batch ID: WG2129224-1 QC Sample: L2565410-25 Client ID: FROG-SS-121						
Solids, Total	83.9	85.0	%	1		10
General Chemistry - Westborough Lab Associated sample(s): 27 QC Batch ID: WG2129248-3 QC Sample: L2565410-27 Client ID: FROG-SS-FB-102						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 39 QC Batch ID: WG2129500-3 QC Sample: L2565410-39 Client ID: FROG-SS-FB-103						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 28-37 (18.5-20.5) QC Batch ID: WG2129586-1 QC Sample: L2565410-35 Client ID: FROG-SS-116						
Solids, Total	81.0	79.9	%	1		10
General Chemistry - Westborough Lab Associated sample(s): 38 QC Batch ID: WG2129594-1 QC Sample: L2565410-38 Client ID: FROG-SS-DUP-103						
Solids, Total	95.4	95.4	%	0		10
General Chemistry - Westborough Lab Associated sample(s): 50 QC Batch ID: WG2130428-3 QC Sample: L2565410-50 Client ID: FROG-SS-FB-104						
Chromium, Hexavalent	ND	ND	mg/l	NC		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG2130459-7 QC Sample: L2565410-04 Client ID: FROG-SS-104 (13-15)						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 11-13 QC Batch ID: WG2130460-6 QC Sample: L2565410-11 Client ID: FROG-SS-110 (1.5-3.5)						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 44-46,48-49 QC Batch ID: WG2130583-1 QC Sample: L2565410-46 Client ID: FROG-SS-122 (30-32)						
Solids, Total	67.3	69.6	%	3		10
General Chemistry - Westborough Lab Associated sample(s): 47 QC Batch ID: WG2130599-1 QC Sample: L2564880-01 Client ID: DUP Sample						
Solids, Total	74.7	77.1	%	3		10
General Chemistry - Westborough Lab Associated sample(s): 40-43 QC Batch ID: WG2130605-1 QC Sample: L2564995-10 Client ID: DUP Sample						
Solids, Total	40.5	43.9	%	8		10
General Chemistry - Westborough Lab Associated sample(s): 15-16,18-25 QC Batch ID: WG2131028-7 QC Sample: L2565410-25 Client ID: FROG-SS-121 (22-24)						
Chromium, Hexavalent	0.393J	0.334J	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 26,28-36 QC Batch ID: WG2131029-7 QC Sample: L2565410-35 Client ID: FROG-SS-116 (18.5-20.5)						
Chromium, Hexavalent	0.840J	ND	mg/kg	NC		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 57 QC Batch ID: WG2131038-3 QC Sample: L2565410-57 Client ID: FROG-SS-FB-105						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 51-54,56 QC Batch ID: WG2131134-1 QC Sample: L2565410-52 Client ID: FROG-SS-125 (FLOOR)						
Solids, Total	98.8	99.0	%	0		10
General Chemistry - Westborough Lab Associated sample(s): 37-38 QC Batch ID: WG2131251-6 QC Sample: L2565410-38 Client ID: FROG-SS-DUP-103						
Chromium, Hexavalent	0.629J	0.178J	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 14,27 QC Batch ID: WG2131375-4 QC Sample: L2565410-14 Client ID: FROG-SS-FB-101						
Cyanide, Free	ND	ND	ug/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 44-49 QC Batch ID: WG2131711-7 QC Sample: L2565410-46 Client ID: FROG-SS-122 (30-32)						
Chromium, Hexavalent	0.431J	0.431J	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 51-54,56 QC Batch ID: WG2131712-7 QC Sample: L2565410-52 Client ID: FROG-SS-125 (FLOOR)						
Chromium, Hexavalent	0.233J	0.233J	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 58 QC Batch ID: WG2131946-3 QC Sample: L2565410-58 Client ID: FROG-SS-EB						
Chromium, Hexavalent	ND	ND	mg/l	NC		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: FROG SWITCH PHASE II

Project Number: Not Specified

Lab Number: L2565410

Report Date: 11/21/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 39 QC Batch ID: WG2132440-4 QC Sample: L2565410-39 Client ID: FROG-SS-FB-103						
Cyanide, Free	ND	ND	ug/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 50,57-58 QC Batch ID: WG2133900-4 QC Sample: L2565410-50 Client ID: FROG-SS-FB-104						
Cyanide, Free	ND	ND	ug/l	NC		20

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent
D	Absent
E	Absent
F	Absent
G	Absent
H	Absent
I	Absent
J	Absent
K	Absent
L	Absent
M	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2565410-01A	Vial MeOH preserved	NA	NA			Y	Absent		PA-8260HLW(14)
L2565410-01B	Vial water preserved	NA	NA			Y	Absent	16-OCT-25 09:19	PA-8260HLW(14)
L2565410-01C	Vial water preserved	NA	NA			Y	Absent	16-OCT-25 09:19	PA-8260HLW(14)
L2565410-01D	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),HG-T(28),MG-TI(180),MN-TI(180),FE-TI(180),CA-TI(180),K-TI(180),CD-TI(180),NA-TI(180)
L2565410-01E	Plastic 120ml unpreserved	NA	NA			Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2565410-01F	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),PA-8270(14),HEXCR-7196(30)
L2565410-01G	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),PA-8270(14),HEXCR-7196(30)
L2565410-02A	Vial MeOH preserved	NA	NA			Y	Absent		PA-8260HLW(14)
L2565410-02B	Vial water preserved	NA	NA			Y	Absent	16-OCT-25 09:19	PA-8260HLW(14)
L2565410-02C	Vial water preserved	NA	NA			Y	Absent	16-OCT-25 09:19	PA-8260HLW(14)
L2565410-02D	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),TL-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),SE-TI(180),ZN-TI(180),PB-TI(180),SB-TI(180),CO-TI(180),V-TI(180),HG-T(28),MG-TI(180),FE-TI(180),MN-TI(180),CA-TI(180),NA-TI(180),K-TI(180),CD-TI(180)
L2565410-02E	Plastic 120ml unpreserved	NA	NA			Y	Absent		TS(7)
L2565410-02F	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),PA-8270(14),HEXCR-7196(30)
L2565410-02G	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),PA-8270(14),HEXCR-7196(30)
L2565410-03A	Vial MeOH preserved	NA	NA			Y	Absent		PA-8260HLW(14)
L2565410-03B	Vial water preserved	NA	NA			Y	Absent	16-OCT-25 09:19	PA-8260HLW(14)
L2565410-03C	Vial water preserved	NA	NA			Y	Absent	16-OCT-25 09:19	PA-8260HLW(14)
L2565410-03D	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TL-TI(180),AL-TI(180),NI-TI(180),CR-TI(180),SE-TI(180),SB-TI(180),CU-TI(180),PB-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),HG-T(28),MN-TI(180),MG-TI(180),FE-TI(180),K-TI(180),CD-TI(180),CA-TI(180),NA-TI(180)
L2565410-03E	Plastic 120ml unpreserved	NA	NA			Y	Absent		TS(7)
L2565410-03F	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),PA-8270(14),HEXCR-7196(30)
L2565410-03G	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),PA-8270(14),HEXCR-7196(30)
L2565410-04A	Vial MeOH preserved	NA	NA			Y	Absent		PA-8260HLW(14)
L2565410-04A1	Vial MeOH preserved	NA	NA			Y	Absent		PA-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2565410-04A2	Vial MeOH preserved	NA	NA			Y	Absent		PA-8260HLW(14)
L2565410-04B	Vial water preserved	NA	NA			Y	Absent	16-OCT-25 09:19	PA-8260HLW(14)
L2565410-04B1	Vial water preserved	NA	NA			Y	Absent	16-OCT-25 09:19	PA-8260HLW(14)
L2565410-04B2	Vial water preserved	NA	NA			Y	Absent	16-OCT-25 09:19	PA-8260HLW(14)
L2565410-04C	Vial water preserved	NA	NA			Y	Absent	16-OCT-25 09:19	PA-8260HLW(14)
L2565410-04C1	Vial water preserved	NA	NA			Y	Absent	16-OCT-25 09:19	PA-8260HLW(14)
L2565410-04C2	Vial water preserved	NA	NA			Y	Absent	16-OCT-25 09:19	PA-8260HLW(14)
L2565410-04D	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),PB-TI(180),ZN-TI(180),CU-TI(180),SB-TI(180),SE-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MN-TI(180),MG-TI(180),HG-T(28),CA-TI(180),NA-TI(180),CD-TI(180),K-TI(180)
L2565410-04D1	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),PB-TI(180),ZN-TI(180),CU-TI(180),SB-TI(180),SE-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MN-TI(180),MG-TI(180),HG-T(28),CA-TI(180),NA-TI(180),CD-TI(180),K-TI(180)
L2565410-04D2	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),PB-TI(180),ZN-TI(180),CU-TI(180),SB-TI(180),SE-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MN-TI(180),MG-TI(180),HG-T(28),CA-TI(180),NA-TI(180),CD-TI(180),K-TI(180)
L2565410-04E	Plastic 120ml unpreserved	NA	NA			Y	Absent		TS(7)
L2565410-04E1	Plastic 120ml unpreserved	NA	NA			Y	Absent		TS(7)
L2565410-04E2	Plastic 120ml unpreserved	NA	NA			Y	Absent		TS(7)
L2565410-04F	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),PA-8270(14),HEXCR-7196(30)
L2565410-04F1	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),PA-8270(14),HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2565410-04F2	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),PA-8270(14),HEXCR-7196(30)
L2565410-04G	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),PA-8270(14),HEXCR-7196(30)
L2565410-04G1	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),PA-8270(14),HEXCR-7196(30)
L2565410-04G2	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),PA-8270(14),HEXCR-7196(30)
L2565410-05A	Vial MeOH preserved	NA	NA			Y	Absent		PA-8260HLW(14)
L2565410-05B	Vial water preserved	NA	NA			Y	Absent	16-OCT-25 09:19	PA-8260HLW(14)
L2565410-05C	Vial water preserved	NA	NA			Y	Absent	16-OCT-25 09:19	PA-8260HLW(14)
L2565410-05D	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),AL-TI(180),TL-TI(180),CR-TI(180),ZN-TI(180),SE-TI(180),SB-TI(180),PB-TI(180),CU-TI(180),V-TI(180),CO-TI(180),MN-TI(180),FE-TI(180),HG-T(28),MG-TI(180),CD-TI(180),NA-TI(180),K-TI(180),CA-TI(180)
L2565410-05E	Plastic 120ml unpreserved	NA	NA			Y	Absent		TS(7)
L2565410-05F	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),HEXCR-7196(30),PA-8270(14)
L2565410-05G	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),HEXCR-7196(30),PA-8270(14)
L2565410-06A	Vial MeOH preserved	NA	NA			Y	Absent		PA-8260HLW(14)
L2565410-06B	Vial water preserved	NA	NA			Y	Absent	16-OCT-25 09:19	PA-8260HLW(14)
L2565410-06C	Vial water preserved	NA	NA			Y	Absent	16-OCT-25 09:19	PA-8260HLW(14)
L2565410-06D	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),PB-TI(180),V-TI(180),CO-TI(180),MN-TI(180),MG-TI(180),FE-TI(180),HG-T(28),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L2565410-06E	Plastic 120ml unpreserved	NA	NA			Y	Absent		TS(7)
L2565410-06F	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),HEXCR-7196(30),PA-8270(14)

*Values in parentheses indicate holding time in days

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2565410-06G	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),HEXCR-7196(30),PA-8270(14)
L2565410-07A	Vial MeOH preserved	NA	NA			Y	Absent		PA-8260HLW(14)
L2565410-07B	Vial water preserved	NA	NA			Y	Absent	16-OCT-25 09:19	PA-8260HLW(14)
L2565410-07C	Vial water preserved	NA	NA			Y	Absent	16-OCT-25 09:19	PA-8260HLW(14)
L2565410-07D	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),CR-TI(180),TL-TI(180),AL-TI(180),ZN-TI(180),PB-TI(180),CU-TI(180),SE-TI(180),SB-TI(180),CO-TI(180),V-TI(180),MN-TI(180),HG-T(28),MG-TI(180),FE-TI(180),CD-TI(180),K-TI(180),NA-TI(180),CA-TI(180)
L2565410-07E	Plastic 120ml unpreserved	NA	NA			Y	Absent		TS(7)
L2565410-07F	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		HEXCR-7196(30),PA-8270(14)
L2565410-07G	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		HEXCR-7196(30),PA-8270(14)
L2565410-08A	Vial MeOH preserved	NA	NA			Y	Absent		PA-8260HLW(14)
L2565410-08B	Vial water preserved	NA	NA			Y	Absent	16-OCT-25 09:19	PA-8260HLW(14)
L2565410-08C	Vial water preserved	NA	NA			Y	Absent	16-OCT-25 09:19	PA-8260HLW(14)
L2565410-08D	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),AL-TI(180),TL-TI(180),SB-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),MN-TI(180),HG-T(28),MG-TI(180),FE-TI(180),NA-TI(180),CA-TI(180),CD-TI(180),K-TI(180)
L2565410-08E	Plastic 120ml unpreserved	NA	NA			Y	Absent		TS(7)
L2565410-08F	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		HEXCR-7196(30),PA-8270(14)
L2565410-08G	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		HEXCR-7196(30),PA-8270(14)
L2565410-09A	Vial MeOH preserved	NA	NA			Y	Absent		PA-8260HLW(14)
L2565410-09B	Vial water preserved	NA	NA			Y	Absent	16-OCT-25 09:19	PA-8260HLW(14)
L2565410-09C	Vial water preserved	NA	NA			Y	Absent	16-OCT-25 09:19	PA-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2565410-09D	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),AL-TI(180),TL-TI(180),CU-TI(180),SB-TI(180),ZN-TI(180),SE-TI(180),PB-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MG-TI(180),HG-T(28),MN-TI(180),K-TI(180),NA-TI(180),CA-TI(180),CD-TI(180)
L2565410-09E	Plastic 120ml unpreserved	NA	NA			Y	Absent		TS(7)
L2565410-09F	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		HEXCR-7196(30),PA-8270(14)
L2565410-09G	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		HEXCR-7196(30),PA-8270(14)
L2565410-10A	Vial MeOH preserved	NA	NA			Y	Absent		PA-8260HLW(14)
L2565410-10B	Vial water preserved	NA	NA			Y	Absent	16-OCT-25 09:19	PA-8260HLW(14)
L2565410-10C	Vial water preserved	NA	NA			Y	Absent	16-OCT-25 09:19	PA-8260HLW(14)
L2565410-10D	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),AL-TI(180),NI-TI(180),CR-TI(180),CU-TI(180),SE-TI(180),SB-TI(180),PB-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),MG-TI(180),FE-TI(180),HG-T(28),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L2565410-10E	Plastic 120ml unpreserved	NA	NA			Y	Absent		TS(7)
L2565410-10F	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		PA-8270(14),HEXCR-7196(30)
L2565410-10G	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		PA-8270(14),HEXCR-7196(30)
L2565410-11A	Vial MeOH preserved	NA	NA			Y	Absent		PA-8260HLW(14)
L2565410-11B	Vial water preserved	NA	NA			Y	Absent	16-OCT-25 09:19	PA-8260HLW(14)
L2565410-11C	Vial water preserved	NA	NA			Y	Absent	16-OCT-25 09:19	PA-8260HLW(14)
L2565410-11D	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),AL-TI(180),NI-TI(180),SB-TI(180),CU-TI(180),SE-TI(180),PB-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),MG-TI(180),MN-TI(180),FE-TI(180),HG-T(28),K-TI(180),CD-TI(180),NA-TI(180),CA-TI(180)
L2565410-11E	Plastic 120ml unpreserved	NA	NA			Y	Absent		TS(7)
L2565410-11F	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		HEXCR-7196(30),PA-8270(14)

*Values in parentheses indicate holding time in days

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Project Number: Not Specified

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2565410-11G	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		HEXCR-7196(30),PA-8270(14)
L2565410-12A	Vial MeOH preserved	NA	NA			Y	Absent		PA-8260HLW(14)
L2565410-12B	Vial water preserved	NA	NA			Y	Absent	16-OCT-25 09:19	PA-8260HLW(14)
L2565410-12C	Vial water preserved	NA	NA			Y	Absent	16-OCT-25 09:19	PA-8260HLW(14)
L2565410-12D	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),SB-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),MN-TI(180),MG-TI(180),HG-T(28),FE-TI(180),CA-TI(180),NA-TI(180),K-TI(180),CD-TI(180)
L2565410-12E	Plastic 120ml unpreserved	NA	NA			Y	Absent		TS(7)
L2565410-12F	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		PA-8270(14),HEXCR-7196(30)
L2565410-12G	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		PA-8270(14),HEXCR-7196(30)
L2565410-13A	Vial MeOH preserved	NA	NA			Y	Absent		PA-8260HLW(14)
L2565410-13B	Vial water preserved	NA	NA			Y	Absent	16-OCT-25 09:19	PA-8260HLW(14)
L2565410-13C	Vial water preserved	NA	NA			Y	Absent	16-OCT-25 09:19	PA-8260HLW(14)
L2565410-13D	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),ZN-TI(180),CU-TI(180),SB-TI(180),PB-TI(180),SE-TI(180),CO-TI(180),V-TI(180),HG-T(28),FE-TI(180),MN-TI(180),MG-TI(180),CA-TI(180),K-TI(180),NA-TI(180),CD-TI(180)
L2565410-13E	Plastic 120ml unpreserved	NA	NA			Y	Absent		TS(7)
L2565410-13F	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		HEXCR-7196(30),PA-8270(14)
L2565410-13G	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		HEXCR-7196(30),PA-8270(14)
L2565410-14A	Vial HCl preserved	NA	NA			Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2565410-14B	Vial HCl preserved	NA	NA			Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2565410-14C	Vial HCl preserved	NA	NA			Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2565410-14D	Amber 100ml unpreserved	NA	NA			Y	Absent		PA-8270-RVT(7)
L2565410-14E	Amber 100ml unpreserved	NA	NA			Y	Absent		PA-8270-RVT(7)
L2565410-14F	Amber 100ml unpreserved	NA	NA			Y	Absent		PA-8082-RVT(365)

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Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2565410-14G	Amber 100ml unpreserved	NA	NA			Y	Absent		PA-8082-RVT(365)
L2565410-14H	Brown Plastic 120ml NaOH preserved	NA	NA			Y	Absent		FCN-9016(14)
L2565410-14J	Plastic 250ml HNO3 preserved	NA	<2	<2		Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),SB-TI(180),CU-TI(180),PB-TI(180),ZN-TI(180),SE-TI(180),V-TI(180),CO-TI(180),HG-T(28),FE-TI(180),MN-TI(180),MG-TI(180),K-TI(180),CA-TI(180),NA-TI(180),CD-TI(180)
L2565410-14K	Plastic 250ml unpreserved	NA	NA			Y	Absent		HEXCR-7196(1)
L2565410-15A	Vial MeOH preserved	NA	NA			Y	Absent		PA-8260HLW(14)
L2565410-15B	Vial water preserved	NA	NA			Y	Absent	17-OCT-25 11:26	PA-8260HLW(14)
L2565410-15C	Vial water preserved	NA	NA			Y	Absent	17-OCT-25 11:26	PA-8260HLW(14)
L2565410-15D	Plastic 120ml unpreserved	NA	NA			Y	Absent		TS(7)
L2565410-15E	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),AL-TI(180),TL-TI(180),CU-TI(180),ZN-TI(180),SB-TI(180),PB-TI(180),SE-TI(180),CO-TI(180),V-TI(180),MN-TI(180),FE-TI(180),MG-TI(180),HG-T(28),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L2565410-15F	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		HEXCR-7196(30)
L2565410-15G	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),PA-8270(14)
L2565410-16A	Vial MeOH preserved	NA	NA			Y	Absent		PA-8260HLW(14)
L2565410-16B	Vial water preserved	NA	NA			Y	Absent	17-OCT-25 11:26	PA-8260HLW(14)
L2565410-16C	Vial water preserved	NA	NA			Y	Absent	17-OCT-25 11:26	PA-8260HLW(14)
L2565410-16D	Plastic 120ml unpreserved	NA	NA			Y	Absent		TS(7)
L2565410-16E	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),AL-TI(180),PB-TI(180),SB-TI(180),ZN-TI(180),CU-TI(180),SE-TI(180),V-TI(180),CO-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NA-TI(180),CA-TI(180),CD-TI(180),K-TI(180)
L2565410-16F	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		HEXCR-7196(30)

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Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2565410-16G	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),PA-8270(14)
L2565410-17A	Vial MeOH preserved	NA	NA			Y	Absent		PA-8260HLW(14)
L2565410-17B	Vial water preserved	NA	NA			Y	Absent	17-OCT-25 11:26	PA-8260HLW(14)
L2565410-17C	Vial water preserved	NA	NA			Y	Absent	17-OCT-25 11:26	PA-8260HLW(14)
L2565410-17D	Plastic 120ml unpreserved	NA	NA			Y	Absent		TS(7)
L2565410-17E	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),AL-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),SB-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MN-TI(180),MG-TI(180),HG-T(28),CD-TI(180),K-TI(180),NA-TI(180),CA-TI(180)
L2565410-17F	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),PA-8270(14)
L2565410-18A	Vial MeOH preserved	NA	NA			Y	Absent		PA-8260HLW(14)
L2565410-18B	Vial water preserved	NA	NA			Y	Absent	17-OCT-25 11:26	PA-8260HLW(14)
L2565410-18C	Vial water preserved	NA	NA			Y	Absent	17-OCT-25 11:26	PA-8260HLW(14)
L2565410-18D	Plastic 120ml unpreserved	NA	NA			Y	Absent		TS(7)
L2565410-18E	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),SE-TI(180),SB-TI(180),CU-TI(180),PB-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),MG-TI(180),FE-TI(180),HG-T(28),MN-TI(180),NA-TI(180),K-TI(180),CA-TI(180),CD-TI(180)
L2565410-18F	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		HEXCR-7196(30)
L2565410-18G	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),PA-8270(14)
L2565410-19A	Vial MeOH preserved	NA	NA			Y	Absent		PA-8260HLW(14)
L2565410-19B	Vial water preserved	NA	NA			Y	Absent	17-OCT-25 11:26	PA-8260HLW(14)
L2565410-19C	Vial water preserved	NA	NA			Y	Absent	17-OCT-25 11:26	PA-8260HLW(14)
L2565410-19D	Plastic 120ml unpreserved	NA	NA			Y	Absent		TS(7)

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Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2565410-19E	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),CR-TI(180),NI-TI(180),AL-TI(180),ZN-TI(180),SE-TI(180),SB-TI(180),CU-TI(180),PB-TI(180),V-TI(180),CO-TI(180),FE-TI(180),HG-T(28),MN-TI(180),MG-TI(180),CD-TI(180),NA-TI(180),CA-TI(180),K-TI(180)
L2565410-19F	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		HEXCR-7196(30)
L2565410-19G	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),PA-8270(14)
L2565410-20A	Vial MeOH preserved	NA	NA			Y	Absent		PA-8260HLW(14)
L2565410-20B	Vial water preserved	NA	NA			Y	Absent	17-OCT-25 11:26	PA-8260HLW(14)
L2565410-20C	Vial water preserved	NA	NA			Y	Absent	17-OCT-25 11:26	PA-8260HLW(14)
L2565410-20D	Plastic 120ml unpreserved	NA	NA			Y	Absent		TS(7)
L2565410-20E	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),AL-TI(180),NI-TI(180),SB-TI(180),PB-TI(180),CU-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MN-TI(180),HG-T(28),MG-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L2565410-20F	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		HEXCR-7196(30)
L2565410-20G	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),PA-8270(14)
L2565410-21A	Vial MeOH preserved	NA	NA			Y	Absent		PA-8260HLW(14)
L2565410-21B	Vial water preserved	NA	NA			Y	Absent	17-OCT-25 11:26	PA-8260HLW(14)
L2565410-21C	Vial water preserved	NA	NA			Y	Absent	17-OCT-25 11:26	PA-8260HLW(14)
L2565410-21D	Plastic 120ml unpreserved	NA	NA			Y	Absent		TS(7)
L2565410-21E	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),NI-TI(180),AL-TI(180),CR-TI(180),CU-TI(180),ZN-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),V-TI(180),CO-TI(180),MG-TI(180),FE-TI(180),HG-T(28),MN-TI(180),CA-TI(180),K-TI(180),CD-TI(180),NA-TI(180)
L2565410-21F	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		HEXCR-7196(30)
L2565410-21G	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),PA-8270(14)

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Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2565410-22A	Vial MeOH preserved	NA	NA			Y	Absent		PA-8260HLW(14)
L2565410-22B	Vial water preserved	NA	NA			Y	Absent	17-OCT-25 11:26	PA-8260HLW(14)
L2565410-22C	Vial water preserved	NA	NA			Y	Absent	17-OCT-25 11:26	PA-8260HLW(14)
L2565410-22D	Plastic 120ml unpreserved	NA	NA			Y	Absent		TS(7)
L2565410-22E	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),AL-TI(180),NI-TI(180),CR-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),SB-TI(180),PB-TI(180),V-TI(180),CO-TI(180),MN-TI(180),FE-TI(180),MG-TI(180),HG-T(28),K-TI(180),CA-TI(180),CD-TI(180),NA-TI(180)
L2565410-22F	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		HEXCR-7196(30)
L2565410-22G	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),PA-8270(14)
L2565410-23A	Vial MeOH preserved	NA	NA			Y	Absent		PA-8260HLW(14)
L2565410-23B	Vial water preserved	NA	NA			Y	Absent	17-OCT-25 11:26	PA-8260HLW(14)
L2565410-23C	Vial water preserved	NA	NA			Y	Absent	17-OCT-25 11:26	PA-8260HLW(14)
L2565410-23D	Plastic 120ml unpreserved	NA	NA			Y	Absent		TS(7)
L2565410-23E	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),PB-TI(180),SE-TI(180),CU-TI(180),ZN-TI(180),SB-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MG-TI(180),HG-T(28),MN-TI(180),CA-TI(180),K-TI(180),NA-TI(180),CD-TI(180)
L2565410-23F	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		HEXCR-7196(30)
L2565410-23G	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),PA-8270(14)
L2565410-24A	Vial MeOH preserved	NA	NA			Y	Absent		PA-8260HLW(14)
L2565410-24B	Vial water preserved	NA	NA			Y	Absent	17-OCT-25 11:26	PA-8260HLW(14)
L2565410-24C	Vial water preserved	NA	NA			Y	Absent	17-OCT-25 11:26	PA-8260HLW(14)
L2565410-24D	Plastic 120ml unpreserved	NA	NA			Y	Absent		TS(7)

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Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2565410-24E	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),SB-TI(180),ZN-TI(180),PB-TI(180),SE-TI(180),CU-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MG-TI(180),HG-T(28),MN-TI(180),CA-TI(180),CD-TI(180),NA-TI(180),K-TI(180)
L2565410-24F	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		HEXCR-7196(30)
L2565410-24G	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),PA-8270(14)
L2565410-25A	Vial MeOH preserved	NA	NA			Y	Absent		PA-8260HLW(14)
L2565410-25A1	Vial MeOH preserved	NA	NA			Y	Absent		PA-8260HLW(14)
L2565410-25A2	Vial MeOH preserved	NA	NA			Y	Absent		PA-8260HLW(14)
L2565410-25B	Vial water preserved	NA	NA			Y	Absent	17-OCT-25 11:26	PA-8260HLW(14)
L2565410-25B1	Vial water preserved	NA	NA			Y	Absent	17-OCT-25 11:26	PA-8260HLW(14)
L2565410-25B2	Vial water preserved	NA	NA			Y	Absent	17-OCT-25 11:26	PA-8260HLW(14)
L2565410-25C	Vial water preserved	NA	NA			Y	Absent	17-OCT-25 11:26	PA-8260HLW(14)
L2565410-25C1	Vial water preserved	NA	NA			Y	Absent	17-OCT-25 11:26	PA-8260HLW(14)
L2565410-25C2	Vial water preserved	NA	NA			Y	Absent	17-OCT-25 11:26	PA-8260HLW(14)
L2565410-25D	Plastic 120ml unpreserved	NA	NA			Y	Absent		TS(7)
L2565410-25D1	Plastic 120ml unpreserved	NA	NA			Y	Absent		TS(7)
L2565410-25D2	Plastic 120ml unpreserved	NA	NA			Y	Absent		TS(7)
L2565410-25E	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),SB-TI(180),V-TI(180),CO-TI(180),HG-T(28),MG-TI(180),MN-TI(180),FE-TI(180),K-TI(180),CD-TI(180),NA-TI(180),CA-TI(180)
L2565410-25E1	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),SB-TI(180),V-TI(180),CO-TI(180),HG-T(28),MG-TI(180),MN-TI(180),FE-TI(180),K-TI(180),CD-TI(180),NA-TI(180),CA-TI(180)

*Values in parentheses indicate holding time in days

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Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2565410-25E2	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),SB-TI(180),V-TI(180),CO-TI(180),HG-T(28),MG-TI(180),MN-TI(180),FE-TI(180),K-TI(180),CD-TI(180),NA-TI(180),CA-TI(180)
L2565410-25F	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		HEXCR-7196(30)
L2565410-25F1	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		HEXCR-7196(30)
L2565410-25F2	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		HEXCR-7196(30)
L2565410-25G	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),PA-8270(14)
L2565410-25G1	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),PA-8270(14)
L2565410-25G2	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),PA-8270(14)
L2565410-26A	Vial MeOH preserved	NA	NA			Y	Absent		PA-8260HLW(14)
L2565410-26B	Vial water preserved	NA	NA			Y	Absent	17-OCT-25 11:26	PA-8260HLW(14)
L2565410-26C	Vial water preserved	NA	NA			Y	Absent	17-OCT-25 11:26	PA-8260HLW(14)
L2565410-26D	Plastic 120ml unpreserved	NA	NA			Y	Absent		TS(7)
L2565410-26E	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),ZN-TI(180),SE-TI(180),CU-TI(180),SB-TI(180),PB-TI(180),CO-TI(180),V-TI(180),HG-T(28),MN-TI(180),MG-TI(180),FE-TI(180),CD-TI(180),K-TI(180),NA-TI(180),CA-TI(180)
L2565410-26F	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		HEXCR-7196(30)
L2565410-26G	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),PA-8270(14)
L2565410-27A	Vial HCl preserved	NA	NA			Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2565410-27B	Vial HCl preserved	NA	NA			Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2565410-27C	Vial HCl preserved	NA	NA			Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2565410-27D	Amber 100ml unpreserved	NA	NA			Y	Absent		PA-8082-RVT(365)
L2565410-27E	Amber 100ml unpreserved	NA	NA			Y	Absent		PA-8082-RVT(365)
L2565410-27F	Amber 100ml unpreserved	NA	NA			Y	Absent		PA-8270-RVT(7)
L2565410-27G	Amber 100ml unpreserved	NA	NA			Y	Absent		PA-8270-RVT(7)

*Values in parentheses indicate holding time in days

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2565410-27H	Brown Plastic 120ml NaOH preserved	NA	NA			Y	Absent		FCN-9016(14)
L2565410-27I	Brown Plastic 120ml NaOH preserved	NA	NA			Y	Absent		FCN-9016(14)
L2565410-27J	Plastic 250ml HNO3 preserved	NA	<2	<2		Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),AL-TI(180),NI-TI(180),SB-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MG-TI(180),HG-T(28),MN-TI(180),CA-TI(180),K-TI(180),NA-TI(180),CD-TI(180)
L2565410-27L	Plastic 250ml unpreserved	NA	NA			Y	Absent		HEXCR-7196(1)
L2565410-28A	Vial MeOH preserved	NA	NA			Y	Absent		PA-8260HLW(14)
L2565410-28B	Vial water preserved	NA	NA			Y	Absent	18-OCT-25 06:00	PA-8260HLW(14)
L2565410-28C	Vial water preserved	NA	NA			Y	Absent	18-OCT-25 06:00	PA-8260HLW(14)
L2565410-28D	Plastic 120ml unpreserved	NA	NA			Y	Absent		TS(7)
L2565410-28E	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),SB-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),HG-T(28),MN-TI(180),MG-TI(180),FE-TI(180),NA-TI(180),K-TI(180),CD-TI(180),CA-TI(180)
L2565410-28F	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),HEXCR-7196(30),PA-8270(14)
L2565410-28G	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),HEXCR-7196(30),PA-8270(14)
L2565410-29A	Vial MeOH preserved	NA	NA			Y	Absent		PA-8260HLW(14)
L2565410-29B	Vial water preserved	NA	NA			Y	Absent	18-OCT-25 06:00	PA-8260HLW(14)
L2565410-29C	Vial water preserved	NA	NA			Y	Absent	18-OCT-25 06:00	PA-8260HLW(14)
L2565410-29D	Plastic 120ml unpreserved	NA	NA			Y	Absent		TS(7)
L2565410-29E	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),SB-TI(180),SE-TI(180),PB-TI(180),CU-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),HG-T(28),FE-TI(180),MN-TI(180),MG-TI(180),CA-TI(180),CD-TI(180),NA-TI(180),K-TI(180)

*Values in parentheses indicate holding time in days

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2565410-29F	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),HEXCR-7196(30),PA-8270(14)
L2565410-29G	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),HEXCR-7196(30),PA-8270(14)
L2565410-30A	Vial MeOH preserved	NA	NA			Y	Absent		PA-8260HLW(14)
L2565410-30B	Vial water preserved	NA	NA			Y	Absent	18-OCT-25 06:00	PA-8260HLW(14)
L2565410-30C	Vial water preserved	NA	NA			Y	Absent	18-OCT-25 06:00	PA-8260HLW(14)
L2565410-30D	Plastic 120ml unpreserved	NA	NA			Y	Absent		TS(7)
L2565410-30E	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),CR-TI(180),TL-TI(180),ZN-TI(180),SB-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),CO-TI(180),V-TI(180),MN-TI(180),FE-TI(180),HG-T(28),MG-TI(180),K-TI(180),CA-TI(180),CD-TI(180),NA-TI(180)
L2565410-30F	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),PA-8270(14),HEXCR-7196(30)
L2565410-30G	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),PA-8270(14),HEXCR-7196(30)
L2565410-31A	Vial MeOH preserved	NA	NA			Y	Absent		PA-8260HLW(14)
L2565410-31B	Vial water preserved	NA	NA			Y	Absent	18-OCT-25 06:00	PA-8260HLW(14)
L2565410-31C	Vial water preserved	NA	NA			Y	Absent	18-OCT-25 06:00	PA-8260HLW(14)
L2565410-31D	Plastic 120ml unpreserved	NA	NA			Y	Absent		TS(7)
L2565410-31E	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),AL-TI(180),NI-TI(180),SB-TI(180),CU-TI(180),SE-TI(180),ZN-TI(180),PB-TI(180),V-TI(180),CO-TI(180),MG-TI(180),MN-TI(180),HG-T(28),FE-TI(180),CA-TI(180),K-TI(180),CD-TI(180),NA-TI(180)
L2565410-31F	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),PA-8270(14),HEXCR-7196(30)
L2565410-31G	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),PA-8270(14),HEXCR-7196(30)
L2565410-32A	Vial MeOH preserved	NA	NA			Y	Absent		PA-8260HLW(14)
L2565410-32B	Vial water preserved	NA	NA			Y	Absent	18-OCT-25 06:00	PA-8260HLW(14)
L2565410-32C	Vial water preserved	NA	NA			Y	Absent	18-OCT-25 06:00	PA-8260HLW(14)

*Values in parentheses indicate holding time in days

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Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2565410-32D	Plastic 120ml unpreserved	NA	NA			Y	Absent		TS(7)
L2565410-32E	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),CO-TI(180),V-TI(180),HG-T(28),MG-TI(180),MN-TI(180),FE-TI(180),CA-TI(180),NA-TI(180),CD-TI(180),K-TI(180)
L2565410-32F	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),PA-8270(14),HEXCR-7196(30)
L2565410-32G	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),PA-8270(14),HEXCR-7196(30)
L2565410-33A	Vial MeOH preserved	NA	NA			Y	Absent		PA-8260HLW(14)
L2565410-33B	Vial water preserved	NA	NA			Y	Absent	18-OCT-25 06:00	PA-8260HLW(14)
L2565410-33C	Vial water preserved	NA	NA			Y	Absent	18-OCT-25 06:00	PA-8260HLW(14)
L2565410-33D	Plastic 120ml unpreserved	NA	NA			Y	Absent		TS(7)
L2565410-33E	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),CR-TI(180),AL-TI(180),TL-TI(180),SB-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),MN-TI(180),HG-T(28),FE-TI(180),MG-TI(180),K-TI(180),NA-TI(180),CD-TI(180),CA-TI(180)
L2565410-33F	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),PA-8270(14),HEXCR-7196(30)
L2565410-33G	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),PA-8270(14),HEXCR-7196(30)
L2565410-34A	Vial MeOH preserved	NA	NA			Y	Absent		PA-8260HLW(14)
L2565410-34B	Vial water preserved	NA	NA			Y	Absent	18-OCT-25 06:00	PA-8260HLW(14)
L2565410-34C	Vial water preserved	NA	NA			Y	Absent	18-OCT-25 06:00	PA-8260HLW(14)
L2565410-34D	Plastic 120ml unpreserved	NA	NA			Y	Absent		TS(7)
L2565410-34E	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),AL-TI(180),NI-TI(180),CR-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),SB-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MG-TI(180),HG-T(28),MN-TI(180),K-TI(180),NA-TI(180),CD-TI(180),CA-TI(180)

*Values in parentheses indicate holding time in days

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2565410-34F	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),HEXCR-7196(30),PA-8270(14)
L2565410-34G	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),HEXCR-7196(30),PA-8270(14)
L2565410-35A	Vial MeOH preserved	NA	NA			Y	Absent		PA-8260HLW(14)
L2565410-35A1	Vial MeOH preserved	NA	NA			Y	Absent		PA-8260HLW(14)
L2565410-35A2	Vial MeOH preserved	NA	NA			Y	Absent		PA-8260HLW(14)
L2565410-35B	Vial water preserved	NA	NA			Y	Absent	18-OCT-25 06:00	PA-8260HLW(14)
L2565410-35B1	Vial water preserved	NA	NA			Y	Absent	18-OCT-25 06:00	PA-8260HLW(14)
L2565410-35B2	Vial water preserved	NA	NA			Y	Absent	18-OCT-25 06:00	PA-8260HLW(14)
L2565410-35C	Vial water preserved	NA	NA			Y	Absent	18-OCT-25 06:00	PA-8260HLW(14)
L2565410-35C1	Vial water preserved	NA	NA			Y	Absent	18-OCT-25 06:00	PA-8260HLW(14)
L2565410-35C2	Vial water preserved	NA	NA			Y	Absent	18-OCT-25 06:00	PA-8260HLW(14)
L2565410-35D	Plastic 120ml unpreserved	NA	NA			Y	Absent		TS(7)
L2565410-35D1	Plastic 120ml unpreserved	NA	NA			Y	Absent		TS(7)
L2565410-35D2	Plastic 120ml unpreserved	NA	NA			Y	Absent		TS(7)
L2565410-35E	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),AL-TI(180),TL-TI(180),NI-TI(180),SB-TI(180),CU-TI(180),SE-TI(180),PB-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),HG-T(28),FE-TI(180),MG-TI(180),MN-TI(180),K-TI(180),NA-TI(180),CD-TI(180),CA-TI(180)
L2565410-35E1	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),AL-TI(180),TL-TI(180),NI-TI(180),SB-TI(180),CU-TI(180),SE-TI(180),PB-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),HG-T(28),FE-TI(180),MG-TI(180),MN-TI(180),K-TI(180),NA-TI(180),CD-TI(180),CA-TI(180)
L2565410-35E2	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),AL-TI(180),TL-TI(180),NI-TI(180),SB-TI(180),CU-TI(180),SE-TI(180),PB-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),HG-T(28),FE-TI(180),MG-TI(180),MN-TI(180),K-TI(180),NA-TI(180),CD-TI(180),CA-TI(180)

*Values in parentheses indicate holding time in days

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2565410-35F	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),HEXCR-7196(30),PA-8270(14)
L2565410-35F1	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),HEXCR-7196(30),PA-8270(14)
L2565410-35F2	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),HEXCR-7196(30),PA-8270(14)
L2565410-35G	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),HEXCR-7196(30),PA-8270(14)
L2565410-35G1	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),HEXCR-7196(30),PA-8270(14)
L2565410-35G2	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),HEXCR-7196(30),PA-8270(14)
L2565410-36A	Vial MeOH preserved	NA	NA			Y	Absent		PA-8260HLW(14)
L2565410-36B	Vial water preserved	NA	NA			Y	Absent	18-OCT-25 06:00	PA-8260HLW(14)
L2565410-36C	Vial water preserved	NA	NA			Y	Absent	18-OCT-25 06:00	PA-8260HLW(14)
L2565410-36D	Plastic 120ml unpreserved	NA	NA			Y	Absent		TS(7)
L2565410-36E	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),NI-TI(180),AL-TI(180),CR-TI(180),SB-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MN-TI(180),HG-T(28),MG-TI(180),CD-TI(180),K-TI(180),CA-TI(180),NA-TI(180)
L2565410-36F	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),PA-8270(14),HEXCR-7196(30)
L2565410-36G	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),PA-8270(14),HEXCR-7196(30)
L2565410-37A	Vial MeOH preserved	NA	NA			Y	Absent		PA-8260HLW(14)
L2565410-37B	Vial water preserved	NA	NA			Y	Absent	18-OCT-25 06:00	PA-8260HLW(14)
L2565410-37C	Vial water preserved	NA	NA			Y	Absent	18-OCT-25 06:00	PA-8260HLW(14)
L2565410-37D	Plastic 120ml unpreserved	NA	NA			Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

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Project Number: Not Specified

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2565410-37E	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),CU-TI(180),PB-TI(180),ZN-TI(180),SE-TI(180),SB-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MG-TI(180),MN-TI(180),HG-T(28),CA-TI(180),K-TI(180),NA-TI(180),CD-TI(180)
L2565410-37F	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),HEXCR-7196(30),PA-8270(14)
L2565410-37G	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),HEXCR-7196(30),PA-8270(14)
L2565410-38A	Vial MeOH preserved	NA	NA			Y	Absent		PA-8260HLW(14)
L2565410-38B	Vial water preserved	NA	NA			Y	Absent	18-OCT-25 06:00	PA-8260HLW(14)
L2565410-38C	Vial water preserved	NA	NA			Y	Absent	18-OCT-25 06:00	PA-8260HLW(14)
L2565410-38D	Plastic 120ml unpreserved	NA	NA			Y	Absent		TS(7)
L2565410-38E	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),FE-TI(180),HG-T(28),MN-TI(180),MG-TI(180),CD-TI(180),NA-TI(180),K-TI(180),CA-TI(180)
L2565410-38F	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),PA-8270(14),HEXCR-7196(30)
L2565410-38G	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),PA-8270(14),HEXCR-7196(30)
L2565410-39A	Vial HCl preserved	NA	NA			Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2565410-39B	Vial HCl preserved	NA	NA			Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2565410-39C	Vial HCl preserved	NA	NA			Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2565410-39D	Amber 100ml unpreserved	NA	NA			Y	Absent		PA-8270-RVT(7),PA-8082-RVT(365)
L2565410-39E	Amber 100ml unpreserved	NA	NA			Y	Absent		PA-8270-RVT(7),PA-8082-RVT(365)
L2565410-39F	Amber 100ml unpreserved	NA	NA			Y	Absent		PA-8270-RVT(7),PA-8082-RVT(365)
L2565410-39G	Amber 100ml unpreserved	NA	NA			Y	Absent		PA-8270-RVT(7),PA-8082-RVT(365)
L2565410-39H	Brown Plastic 120ml NaOH preserved	NA	NA			Y	Absent		FCN-9016(14)

*Values in parentheses indicate holding time in days

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2565410-39I	Plastic 250ml HNO3 preserved	NA	<2	<2		Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),SE-TI(180),SB-TI(180),PB-TI(180),ZN-TI(180),CU-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MN-TI(180),MG-TI(180),K-TI(180),CA-TI(180),CD-TI(180),NA-TI(180)
L2565410-39J	Plastic 250ml unpreserved	NA	NA			Y	Absent		HEXCR-7196(1)
L2565410-40A	Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		PA-8082(365),TS(7)
L2565410-41A	Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		PA-8082(365),TS(7)
L2565410-42A	Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		PA-8082(365),TS(7)
L2565410-43A	Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		PA-8082(365),TS(7)
L2565410-44A	Vial MeOH preserved	NA	NA			Y	Absent		PA-8260HLW(14)
L2565410-44B	Vial water preserved	NA	NA			Y	Absent	21-OCT-25 04:04	PA-8260HLW(14)
L2565410-44C	Vial water preserved	NA	NA			Y	Absent	21-OCT-25 04:04	PA-8260HLW(14)
L2565410-44D	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),AL-TI(180),TL-TI(180),CR-TI(180),CU-TI(180),ZN-TI(180),SB-TI(180),SE-TI(180),PB-TI(180),V-TI(180),CO-TI(180),MN-TI(180),FE-TI(180),HG-T(28),MG-TI(180),K-TI(180),CD-TI(180),CA-TI(180),NA-TI(180)
L2565410-44E	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),PA-8270(14),HEXCR-7196(30)
L2565410-44F	Plastic 120ml unpreserved	NA	NA			Y	Absent		TS(7)
L2565410-44G	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),PA-8270(14),HEXCR-7196(30)
L2565410-45A	Vial MeOH preserved	NA	NA			Y	Absent		PA-8260HLW(14)
L2565410-45B	Vial water preserved	NA	NA			Y	Absent	21-OCT-25 04:04	PA-8260HLW(14)
L2565410-45C	Vial water preserved	NA	NA			Y	Absent	21-OCT-25 04:04	PA-8260HLW(14)

*Values in parentheses indicate holding time in days

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Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2565410-45D	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),SB-TI(180),PB-TI(180),SE-TI(180),CU-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),MG-TI(180),MN-TI(180),FE-TI(180),HG-T(28),CD-TI(180),CA-TI(180),K-TI(180),NA-TI(180)
L2565410-45E	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),PA-8270(14),HEXCR-7196(30)
L2565410-45F	Plastic 120ml unpreserved	NA	NA			Y	Absent		TS(7)
L2565410-45G	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),PA-8270(14),HEXCR-7196(30)
L2565410-46A	Vial MeOH preserved	NA	NA			Y	Absent		PA-8260HLW(14)
L2565410-46A1	Vial MeOH preserved	NA	NA			Y	Absent		PA-8260HLW(14)
L2565410-46A2	Vial MeOH preserved	NA	NA			Y	Absent		PA-8260HLW(14)
L2565410-46B	Vial water preserved	NA	NA			Y	Absent	21-OCT-25 04:04	PA-8260HLW(14)
L2565410-46B1	Vial water preserved	NA	NA			Y	Absent	21-OCT-25 04:04	PA-8260HLW(14)
L2565410-46B2	Vial water preserved	NA	NA			Y	Absent	21-OCT-25 04:04	PA-8260HLW(14)
L2565410-46C	Vial water preserved	NA	NA			Y	Absent	21-OCT-25 04:04	PA-8260HLW(14)
L2565410-46C1	Vial water preserved	NA	NA			Y	Absent	21-OCT-25 04:04	PA-8260HLW(14)
L2565410-46C2	Vial water preserved	NA	NA			Y	Absent	21-OCT-25 04:04	PA-8260HLW(14)
L2565410-46D	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),SB-TI(180),ZN-TI(180),PB-TI(180),CU-TI(180),SE-TI(180),V-TI(180),CO-TI(180),HG-T(28),FE-TI(180),MG-TI(180),MN-TI(180),CD-TI(180),NA-TI(180),CA-TI(180),K-TI(180)
L2565410-46D1	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),SB-TI(180),ZN-TI(180),PB-TI(180),CU-TI(180),SE-TI(180),V-TI(180),CO-TI(180),HG-T(28),FE-TI(180),MG-TI(180),MN-TI(180),CD-TI(180),NA-TI(180),CA-TI(180),K-TI(180)

*Values in parentheses indicate holding time in days

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Project Number: Not Specified

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2565410-46D2	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),SB-TI(180),ZN-TI(180),PB-TI(180),CU-TI(180),SE-TI(180),V-TI(180),CO-TI(180),HG-T(28),FE-TI(180),MG-TI(180),MN-TI(180),CD-TI(180),NA-TI(180),CA-TI(180),K-TI(180)
L2565410-46E	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),HEXCR-7196(30),PA-8270(14)
L2565410-46E1	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),HEXCR-7196(30),PA-8270(14)
L2565410-46E2	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),HEXCR-7196(30),PA-8270(14)
L2565410-46F	Plastic 120ml unpreserved	NA	NA			Y	Absent		TS(7)
L2565410-46F1	Plastic 120ml unpreserved	NA	NA			Y	Absent		TS(7)
L2565410-46F2	Plastic 120ml unpreserved	NA	NA			Y	Absent		TS(7)
L2565410-46G	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),HEXCR-7196(30),PA-8270(14)
L2565410-46G1	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),HEXCR-7196(30),PA-8270(14)
L2565410-46G2	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),HEXCR-7196(30),PA-8270(14)
L2565410-47A	Vial MeOH preserved	NA	NA			Y	Absent		PA-8260HLW(14)
L2565410-47B	Vial water preserved	NA	NA			Y	Absent	21-OCT-25 04:04	PA-8260HLW(14)
L2565410-47C	Vial water preserved	NA	NA			Y	Absent	21-OCT-25 04:04	PA-8260HLW(14)
L2565410-47D	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),SB-TI(180),PB-TI(180),CU-TI(180),ZN-TI(180),SE-TI(180),CO-TI(180),V-TI(180),MG-TI(180),FE-TI(180),HG-T(28),MN-TI(180),CA-TI(180),K-TI(180),CD-TI(180),NA-TI(180)
L2565410-47E	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),PA-8270(14),HEXCR-7196(30)
L2565410-47F	Plastic 120ml unpreserved	NA	NA			Y	Absent		TS(7)
L2565410-47G	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),PA-8270(14),HEXCR-7196(30)
L2565410-48A	Vial MeOH preserved	NA	NA			Y	Absent		PA-8260HLW(14)

*Values in parentheses indicate holding time in days

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2565410-48B	Vial water preserved	NA	NA			Y	Absent	21-OCT-25 04:04	PA-8260HLW(14)
L2565410-48C	Vial water preserved	NA	NA			Y	Absent	21-OCT-25 04:04	PA-8260HLW(14)
L2565410-48D	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),CU-TI(180),SB-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),MN-TI(180),HG-T(28),MG-TI(180),FE-TI(180),NA-TI(180),K-TI(180),CA-TI(180),CD-TI(180)
L2565410-48E	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),HEXCR-7196(30),PA-8270(14)
L2565410-48F	Plastic 120ml unpreserved	NA	NA			Y	Absent		TS(7)
L2565410-48G	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),HEXCR-7196(30),PA-8270(14)
L2565410-49A	Vial MeOH preserved	NA	NA			Y	Absent		PA-8260HLW(14)
L2565410-49B	Vial water preserved	NA	NA			Y	Absent	21-OCT-25 04:04	PA-8260HLW(14)
L2565410-49C	Vial water preserved	NA	NA			Y	Absent	21-OCT-25 04:04	PA-8260HLW(14)
L2565410-49D	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),ZN-TI(180),SB-TI(180),PB-TI(180),SE-TI(180),V-TI(180),CO-TI(180),MG-TI(180),HG-T(28),FE-TI(180),MN-TI(180),K-TI(180),CD-TI(180),NA-TI(180),CA-TI(180)
L2565410-49E	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),HEXCR-7196(30),PA-8270(14)
L2565410-49F	Plastic 120ml unpreserved	NA	NA			Y	Absent		TS(7)
L2565410-49G	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),HEXCR-7196(30),PA-8270(14)
L2565410-50A	Vial HCl preserved	NA	NA			Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2565410-50B	Vial HCl preserved	NA	NA			Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2565410-50C	Vial HCl preserved	NA	NA			Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2565410-50D	Amber 100ml unpreserved	NA	NA			Y	Absent		PA-8082-RVT(365)
L2565410-50E	Amber 100ml unpreserved	NA	NA			Y	Absent		PA-8082-RVT(365)
L2565410-50F	Amber 100ml unpreserved	NA	NA			Y	Absent		PA-8270-RVT(7)

*Values in parentheses indicate holding time in days

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2565410-50G	Amber 100ml unpreserved	NA	NA			Y	Absent		PA-8270-RVT(7)
L2565410-50H	Brown Plastic 120ml NaOH preserved	NA	NA			Y	Absent		FCN-9016(14)
L2565410-50I	Plastic 250ml HNO3 preserved	NA	<2	<2		Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TL-TI(180),CR-TI(180),AL-TI(180),NI-TI(180),SB-TI(180),CU-TI(180),SE-TI(180),PB-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),MN-TI(180),FE-TI(180),MG-TI(180),HG-T(28),CA-TI(180),K-TI(180),NA-TI(180),CD-TI(180)
L2565410-50J	Plastic 250ml unpreserved	NA	NA			Y	Absent		HEXCR-7196(1)
L2565410-51A	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),SE-TI(180),PB-TI(180),CU-TI(180),SB-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),MG-TI(180),MN-TI(180),FE-TI(180),HG-T(28),CD-TI(180),K-TI(180),NA-TI(180),CA-TI(180)
L2565410-51B	Plastic 2oz unpreserved for TS	NA	NA			Y	Absent		TS(7)
L2565410-51C	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),HEXCR-7196(30),PA-8270(14)
L2565410-51D	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),HEXCR-7196(30),PA-8270(14)
L2565410-52A	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),SB-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MG-TI(180),MN-TI(180),HG-T(28),K-TI(180),NA-TI(180),CD-TI(180),CA-TI(180)
L2565410-52A1	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),SB-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MG-TI(180),MN-TI(180),HG-T(28),K-TI(180),NA-TI(180),CD-TI(180),CA-TI(180)

*Values in parentheses indicate holding time in days

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Project Number: Not Specified

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2565410-52A2	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),SB-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MG-TI(180),MN-TI(180),HG-T(28),K-TI(180),NA-TI(180),CD-TI(180),CA-TI(180)
L2565410-52B	Plastic 2oz unpreserved for TS	NA	NA			Y	Absent		TS(7)
L2565410-52B1	Plastic 120ml unpreserved	NA	NA			Y	Absent		TS(7)
L2565410-52B2	Plastic 120ml unpreserved	NA	NA			Y	Absent		TS(7)
L2565410-52C	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),PA-8270(14),HEXCR-7196(30)
L2565410-52C1	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),PA-8270(14),HEXCR-7196(30)
L2565410-52C2	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),PA-8270(14),HEXCR-7196(30)
L2565410-52D	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),PA-8270(14),HEXCR-7196(30)
L2565410-52D1	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),PA-8270(14),HEXCR-7196(30)
L2565410-52D2	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),PA-8270(14),HEXCR-7196(30)
L2565410-53A	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),CR-TI(180),NI-TI(180),AL-TI(180),ZN-TI(180),PB-TI(180),CU-TI(180),SB-TI(180),SE-TI(180),CO-TI(180),V-TI(180),HG-T(28),MN-TI(180),MG-TI(180),FE-TI(180),K-TI(180),CA-TI(180),CD-TI(180),NA-TI(180)
L2565410-53B	Plastic 2oz unpreserved for TS	NA	NA			Y	Absent		TS(7)
L2565410-53C	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),PA-8270(14),HEXCR-7196(30)
L2565410-53D	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),PA-8270(14),HEXCR-7196(30)
L2565410-54A	Vial MeOH preserved	NA	NA			Y	Absent		PA-8260HLW(14)
L2565410-54B	Vial water preserved	NA	NA			Y	Absent	22-OCT-25 08:55	PA-8260HLW(14)
L2565410-54C	Vial water preserved	NA	NA			Y	Absent	22-OCT-25 08:55	PA-8260HLW(14)

*Values in parentheses indicate holding time in days

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Project Number: Not Specified

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2565410-54D	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),SB-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),MG-TI(180),MN-TI(180),HG-T(28),FE-TI(180),CD-TI(180),NA-TI(180),K-TI(180),CA-TI(180)
L2565410-54E	Plastic 120ml unpreserved	NA	NA			Y	Absent		TS(7)
L2565410-54F	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),HEXCR-7196(30),PA-8270(14)
L2565410-54G	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),HEXCR-7196(30),PA-8270(14)
L2565410-55A	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		ARCHIVE()
L2565410-55B	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		ARCHIVE()
L2565410-56A	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),AL-TI(180),PB-TI(180),SE-TI(180),CU-TI(180),SB-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NA-TI(180),CA-TI(180),CD-TI(180),K-TI(180)
L2565410-56B	Plastic 2oz unpreserved for TS	NA	NA			Y	Absent		TS(7)
L2565410-56C	Glass 120ml/4oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),HEXCR-7196(30),PA-8270(14)
L2565410-56D	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		PA-8082(365),FCN-9016(14),HEXCR-7196(30),PA-8270(14)
L2565410-57A	Vial HCl preserved	NA	NA			Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2565410-57B	Vial HCl preserved	NA	NA			Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2565410-57C	Vial HCl preserved	NA	NA			Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2565410-57D	Amber 100ml unpreserved	NA	NA			Y	Absent		PA-8270-RVT(7)
L2565410-57E	Amber 100ml unpreserved	NA	NA			Y	Absent		PA-8082-RVT(365)
L2565410-57F	Brown Plastic 120ml NaOH preserved	NA	NA			Y	Absent		FCN-9016(14)

*Values in parentheses indicate holding time in days

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2565410
Report Date: 11/21/25

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2565410-57G	Plastic 250ml HNO3 preserved	NA	<2	<2		Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),AL-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),CU-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),MG-TI(180),MN-TI(180),FE-TI(180),HG-T(28),NA-TI(180),CD-TI(180),CA-TI(180),K-TI(180)
L2565410-57H	Plastic 250ml unpreserved	NA	NA			Y	Absent		HEXCR-7196(1)
L2565410-58A	Vial HCl preserved	NA	NA			Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2565410-58B	Vial HCl preserved	NA	NA			Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2565410-58C	Vial HCl preserved	NA	NA			Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2565410-58D	Amber 100ml unpreserved	NA	NA			Y	Absent		PA-8270-RVT(7)
L2565410-58E	Amber 100ml unpreserved	NA	NA			Y	Absent		PA-8082-RVT(365)
L2565410-58F	Brown Plastic 120ml NaOH preserved	NA	NA			Y	Absent		FCN-9016(14)
L2565410-58G	Plastic 250ml HNO3 preserved	NA	<2	<2		Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),AL-TI(180),TL-TI(180),CR-TI(180),PB-TI(180),ZN-TI(180),CU-TI(180),SB-TI(180),SE-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MN-TI(180),MG-TI(180),CA-TI(180),K-TI(180),CD-TI(180),NA-TI(180)
L2565410-58H	Plastic 250ml unpreserved	NA	NA			Y	Absent		HEXCR-7196(1)

*Values in parentheses indicate holding time in days

Project Name:	FROG SWITCH PHASE II	**Lab Number:**	L2565410
Project Number:	Not Specified	**Report Date:**	11/21/25

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	FROG SWITCH PHASE II	**Lab Number:**	L2565410
Project Number:	Not Specified	**Report Date:**	11/21/25

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	FROG SWITCH PHASE II	**Lab Number:**	L2565410
Project Number:	Not Specified	**Report Date:**	11/21/25

Data Qualifiers

estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - 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.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2565410
Report Date: 11/21/25

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

107 Calculation method.

109 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Revision 0, June 2010.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
MADEP-APH.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, SM4500CL-G, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT.**

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1: Hg. **EPA 245.7:** Hg.
SM2340B

Certification IDs:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
CT PH-0826, IL 200077, IN C-MA-03, KY kY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
MA M-MA00030, CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 85084, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
ANAB/DoD L2474, LA 245052, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

For a complete listing of analytes and methods, please contact your Project Manager.

CHAIN OF CUSTODY

PAGE 1 OF 2

Date Rec'd in Lab: 10/16/25

Pace Job #: L2565410 USDOT

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: VSDOT Volpe Center
Address: 220 Binney Street
Cambridge, MA 02142
Phone: 617-494-3053
Fax: —
Email: Jacob.Klaybor@dot.gov
☐ These samples have been previously analyzed by Pace

Project Information

Project Name: Frog Switch Phase II
Project Location: Carlise, PA
Project #: —
Project Manager: —
Pace Quote #: —

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: — Time: —

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria
PA	PADEP MSCs

Other Project Specific Requirements/Comments/Detection Limits:

Pace Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Metals, Total Hg 6010D	Hex Cr 7196	VOCs 8260D	SVOCs 8270E	PCBs 8082A	Free Cyanide 9016	Total Solids	Sample Specific Comments	TOTAL # BOTTLES
65410.01	FROG-SS-103(0-2)	10/15/25	1445	S	LC	X	X	X	X	X	X	X		7
02	FROG-SS-103(28-30)		1513	S	JK	X	X	X	X	X	X	X		7
03	FROG-SS-104(0-2)		1343	S	JK	X	X	X	X	X	X	X		7
04	FROG-SS-104(13-15)		1347	S	JK/LC	X	X	X	X	X	X	X		7
05	FROG-SS-105(1-3)		1152	S	JK	X	X	X	X	X	X	X		7
06	FROG-SS-105(13-15)		1154	S	JK/LC	X	X	X	X	X	X	X		7
07	FROG-SS-108(1-3)		0950	S	JK	X	X	X	X			X		7
08	FROG-SS-108(5.5-7.5)		0956	S	LC	X	X	X	X			X		7
09	FROG-SS-109(2.5-4.5)		0858	S	JK	X	X	X	X			X		7
10	FROG-SS-109(8-10)		0847	S	LC	X	X	X	X			X		7
	Container Type					A	A	V	A	A	A	P		
	Preservative					A	A	F	A	A	A	A		

SAMPLE HANDLING
Filtration
☐ Done ☐ Not needed ☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Relinquished By:	Date/Time	Received By:	Date/Time
J. Klaybor	10/15/25 1715	RWP	10-15 1715
RWP	10-15	Anthony Green	OCT 15 2025 2330
Anthony Green		Alberto Liz	10-16-25 0200
Alberto Liz	10-16-25 0340		10/16 0340

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Pace's Terms and Conditions. See reverse side.

CHAIN OF CUSTODY

PAGE 2 OF 2

Date Rec'd in Lab: 10/16/25

Pace Job #: L2565410 USDOT

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: USDOT Volpe Center
Address:
Phone: 617-494-3053
Fax:
Email:
☐ These samples have been previously analyzed by Pace

Project Information

Project Name: Frog Switch Phase II
Project Location:
Project #:
Project Manager:
Pace Quote #:

Turn-Around Time

☐ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Inform

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

Other Project Specific Requirements/Comments/Detection Limits:

Pace Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Metals, Total Hg GOOD	Hex Cr 7196	VOCs 8260D	SVOCs 8270E	PCBs 8082A	Free Cyanide 9016	Total Solids	Sample Specific Comments	Total # Bottles
65410-11	FROG-SS-110(1.5-3.5)	10/15/25	1046	S	JK	X	X	X	X			X		7
12	FROG-SS-110(5-7)		1052	S	LC	X	X	X	X			X		7
13	FROG-SS-DUP-101		—	S	LC	X	X	X	X			X		7
04 ~~14~~	FROG-SS-MS-101		1347	S	LC	X	X	X	X	X	X	X	MS/MSD correspond to	7
04 ~~15~~	FROG-SS-MSD-101		1347	S	LC	X	X	X	X	X	X	X	Sample FROG-SS-104(13-15)	7
14 ~~16~~	FROG-SS-FB-101		1530	~~Aq~~ S	JK	X	X	X	X	X	X	X	Field Blank	10
MK 10/16														

Container Type	A	A	V	A	A	A	P
Preservative	A	A	F	A	A	A	A

SAMPLE HANDLING
Filtration
☐ Done ☐ Not needed ☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Relinquished By:	Date/Time	Received By:	Date/Time
J. Klayber	10/15/25 1715	RMP	10-15 1715
Anthony Green	RMP 10/15	Anthony Green	OCT 15 2025 2300
Alberto Liz	10-16-25 0340	Alberto Liz	10-16-25 0200
			10/16 0340

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Pace's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 25-FEB-25)

CHAIN OF CUSTODY

PAGE 1 OF 2

Pace

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 10/17/25

Pace Job #: L2565410

Client Information

Client: VSDOT Volpe Center
Address: 220 Binney Street
Cambridge, MA 02142
Phone: 617-494-3053
Fax: –
Email: Jacob.Klaybor@dot.gov
☐ These samples have been previously analyzed by Pace

Project Information

Project Name: Frog Switch Phase II
Project Location: Carlise, PA
Project #: –
Project Manager: –
Pace Quote #: –

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program: PA Criteria: PADEP MSCs

Other Project Specific Requirements/Comments/Detection Limits:

Pace Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Metals + Hg 6010D	Hex Cr 7196	VOCs 8260D	SVOCs 8270 SIM E	PCBs 8082A	Free Cyanide 9016	Total Solids	Sample Specific Comments	TOTAL # BOTTLES
65410 15	FROG-SS-118(0-2)	10/16/25	1420	S	JK	X	X	X	X	X	X	X		7
16	FROG-SS-118(10-12)		1423	S	LC	X	X	X	X	X	X	X		7
17	FROG-SS-119(0.5-1)		1345	S	LC	X		X	X	X	X	X	Limited volume, prioritize PCBs + SVOCs if all cannot be run	6
18	FROG-SS-111(0-2)		1028	S	JK	X	X	X	X	X	X	X		7
19	FROG-SS-111(11-13)		1030	S	LC	X	X	X	X	X	X	X		7
20	FROG-SS-112(0-2)		1120	S	JK	X	X	X	X	X	X	X		7
21	FROG-SS-112(7-9)		1122	S	LC	X	X	X	X	X	X	X		7
22	FROG-SS-120(0-2)		0800	S	JK	X	X	X	X	X	X	X		7
23	FROG-SS-120(2-3.5)		0805	S	JK	X	X	X	X	X	X	X		7
24	FROG-SS-121(0-2)		0906	S	JK	X	X	X	X	X	X	X		7
	Container Type					A	A	V	A	A	A	A		
	Preservative					A	A	F	A	A	A	A		

SAMPLE HANDLING
Filtration ☐ Done ☐ Not needed ☐ Lab to do
Preservation ☐ Lab to do (Please specify below)

Relinquished By:	Date/Time	Received By:	Date/Time
J. Klaybor	10/16/25 1617	Pace	10-16-25 1617
Anthony Green	10/16	Anthony Green OCT 16 2025 2330	10/16/25
Alberto Liz	10-17-25 0420	Alberto Liz	10-17-25 0230

10/17/25 0420

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Pace's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 25-FEB-25)

CHAIN OF CUSTODY

PAGE 2 OF 2

Pace

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 10/17/25

Pace Job #: L2565410

Client Information

Client: VSDOT Volpe Center
Address:
Phone: 617-494-3053
Fax:
Email:
☐ These samples have been previously analyzed by Pace

Project Information

Project Name: Frog Switch Phase II
Project Location:
Project #:
Project Manager:
Pace Quote #:

Turn-Around Time

☐ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

Other Project Specific Requirements/Comments/Detection Limits:

Pace Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Metals + Hg 6010D	Hex Cr 7196	VOCs 8260D	SVOCs 8270E	PCBs 8082A	Free Cyanide 9016	Total Solids	Sample Specific Comments	Total # Bottles
65410-25	FROG-SS-121(22-24)	10/16/25	0916	S	LC	X	X	X	X	X	X	X		7
26	FROG-SS-DUP-102		—	S	LC	X	X	X	X	X	X	X		7
25	FROG-SS-MS-102		0916	S	LC	X	X	X	X	X	X	X		7
25	FROG-SS-MSD-102		0916	S	LC	X	X	X	X	X	X	X	MS/MSD correspond to sample FROG-SS-121(22-24)	7
27	FROG-SS-FB-102		1310	Aq	JK	X	X	X	X	X	X	X		10

SAMPLE HANDLING
Filtration
☐ Done ☐ Not needed ☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Container Type	A	A	V	A	A	A	P
Preservative	A	A	F	A	A	A	A

Relinquished By:	Date/Time	Received By:	Date/Time
J. Klaybor	10/16/25 1617	Pace	10.16.25 1617
Anthony Green	10/16 1825	Anthony Green	10.16 1825
Alberto Liz	10-17-25 0420	Alberto Liz	10-17-25 0230
		OCT 16 2025 0330	10/17/25 0420

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Pace's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 25-FEB-25)

CHAIN OF CUSTODY

PAGE 1 OF 2

Pace

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 10/18/25

Pace Job #: L2565410

Client Information

Client: USDOT Volpe Center
Address: 220 Binney Street
Cambridge, MA 02142
Phone: 617-494-3053
Fax:
Email: Jacob.Waybor@dot.gov
☐ These samples have been previously analyzed by Pace

Project Information

Project Name: Frog Switch Phase 2
Project Location: Carlise, PA
Project #: –
Project Manager: –
Pace Quote #: –

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program: PA
Criteria: PA DEP MSCs

Other Project Specific Requirements/Comments/Detection Limits:

Pace Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total metals + Hg 6010D	Hex Cr 7196	VOCs 8260D	SVOCs 8270E	PCBs 8082A	Free Cyanide	Total Solids	Sample Specific Comments	TOTAL # BOTTLES
65410-28	FROG-SS-101 (0-2)	10/17/25	1240	S	LC	X	X	X	X	X	X	X		7
-29	FROG-SS-101 (3-5)		1241	S	JK	X	X	X	X	X	X	X		7
-30	FROG-SS-102 (0-2)		1345	S	JK	X	X	X	X	X	X	X		7
-31	FROG-SS-102 (19-21)		1351	S	LC	X	X	X	X	X	X	X		7
-32	FROG-SS-115 (0-2)		1043	S	JK	X	X	X	X	X	X	X		7
-33	FROG-SS-115 (7.5-9.5)		1045	S	LC	X	X	X	X	X	X	X		7
-34	FROG-SS-116 (0-2)		0942	S	LC	X	X	X	X	X	X	X		7
-35	FROG-SS-116 (18.5-20.5)		0944	S	JK	X	X	X	X	X	X	X		7
-36	FROG-SS-117 (0-2)		0814	S	JK	X	X	X	X	X	X	X		7
-37	FROG-SS-117 (11-13)		0822	S	LC	X	X	X	X	X	X	X		7

SAMPLE HANDLING
Filtration
☐ Done ☐ Not needed ☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Container Type	A	A	V	A	A	A	P							
Preservative	A	A	F	A	A	A	A							

Relinquished By:	Date/Time	Received By:	Date/Time
J. Waybor	10/17/25 1530 (1540)	Pace	10/17/25 1529 (1540)
Anthony Green	10/17 1047	Anthony Green	OCT 17 2025
Alberto Liz	10-18-25 0330	Alberto Liz	10-18-25 0200

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Pace's Terms and Conditions. See reverse side.

10/18/25 0330

FORM NO: 01-01 (rev. 25-FEB-25)

CHAIN OF CUSTODY

PAGE 2 OF 2

Date Rec'd in Lab: 10/18/25

Pace Job #: L2565410

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: USDOT Volpe Center
Address: 220 Binney Street
Cambridge, MA 02142
Phone: 617-494-3053
Fax:
Email: Jacob.Klaybor@dot.gov
☐ These samples have been previously analyzed by Pace

Project Information

Project Name: Frog Switch Phase 2
Project Location: Carlise, PA
Project #: -
Project Manager: -
Pace Quote #: -

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client Info PO #:

Regulatory Requirements/Report Limits

State /Fed Program: PA Criteria: PA DEP MSCs

Other Project Specific Requirements/Comments/Detection Limits:

Pace Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Metals + Hg (solid)	Hex Cr 7196	VOCs 8260D	SVOCs 8270E	PCBs 8082A	Free Cyanide	Total Solids	Sample Specific Comments	Total # Bottles
65410-38	FROG-SS-DUP-103	10/17/25	—	S	JK	X	X	X	X	X	X	X		7
-35	FROG-SS-MS-103	|	0944	S	JK	X	X	X	X	X	X	X	MS/MSD corresponds to Sample FROG-SS-116(185-205)	7
-35	FROG-SS-MSD-103	|	0944	S	JK	X	X	X	X	X	X	X		7
~~65565410~~ -39 MB	FROG-SS-FB-103	|	1210	Aq	JK	X	X	X	X	X	X	X		10

SAMPLE HANDLING
Filtration
☐ Done ☐ Not needed ☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Container Type	A	A	V	A	A	A	P	
Preservative	A	A	F	A	A	A	A	

Relinquished By:	Date/Time	Received By:	Date/Time
J. Klaybor	10/17/25 1529		10/17/25 1529
	10/17/25 1840		10/17/25 1840
10/17		Anthony Green OCT 17 2025 2250	
Anthony Green		Alberto Vic 10-18-25 0200	
Alberto Vic 10-18-25 0330			

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Pace's Terms and Conditions. See reverse side.

10/18/25 03:30

FORM NO: 01-01 (rev. 25-FEB-25)

CHAIN OF CUSTODY

PAGE 1 OF 2

Pace Analytical Services

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 10/21/25

Pace Jo: L2565410 USDOT

Client Information

Client: USDOT Volpe Center
Address: 220 Binney Street Cambridge, MA 02142
Phone: 617-494-3053
Fax: –
Email: Jacob.Klaybor@dot.gov
☐ These samples have been previously analyzed by Pace

Project Information

Project Name: Frog Switch Phase II
Project Location: Carlisle, PA
Project #: –
Project Manager: –
Pace Quote #: –

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria
PA	PADEP MSCs

Other Project Specific Requirements/Comments/Detection Limits:

Pace Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Metals + Hg 6010D	Hex Cr 7196	VOCs 8260D	SVOCs 8270E	PCBs 8082A	Free Cyanide 9016	Total Solids	Sample Specific Comments	Total # Bottles
654065446 (03) -40	FROG-SS-114(0-2)	10/20/25	0841	S	JK					X		X		1
-41	FROG-SS-114(17-19)		0844	S	JK					X		X		1
-42	FROG-SS-113(0-2)		0750	S	JK					X		X		1
-43	FROG-SS-113(6-8)		0752	S	JK					X		X		1
-44	FROG-SS-119(0-0.5)		1400	S	JK	X	X	X	X	X	X	X		7
-45	FROG-SS-122(1.5-3.5)		1045	S	JK	X	X	X	X	X	X	X		7
-46	FROG-SS-122(30-32)		1100	S	JK	X	X	X	X	X	X	X		7
-47	FROG-SS-123(1-3)		1235	S	JK	X	X	X	X	X	X	X		7
-48	FROG-SS-123(17-19)		1242	S	JK	X	X	X	X	X	X	X		7
-49	FROG-SS-DUP-104		–	S	JK	X	X	X	X	X	X	X		7

SAMPLE HANDLING
Filtration
☐ Done ☐ Not needed ☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Container Type	A	A	V	A	A	A	P							
Preservative	A	A	F	A	A	A	A							

Relinquished By:	Date/Time	Received By:	Date/Time
J. Klaybor	10/20/25 1454	D. Rubino PACE	10/20/25 1840
D. Rubino PACE	10/21/25 1845	Anthony Green	10/20
Anthony Green	Alberto Liz 10-21-25 0225	Alberto Liz 10-21-25 0045	Tolu 10/21/25 0225

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Pace's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 25-FEB-25)

Pace ANALYTICAL SERVICES

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193
Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

~~NEW JERSEY~~ CHAIN OF CUSTODY

Service Centers
Woodcliff Lake, NJ 07677: 123 Tice Blvd, Suite 101
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page: 2 of 2

Date Rec'd in Lab: 10/21/25

PACE Job #: L2565410

Client Information
Client: VSDOT Volpe Center
Address:
Phone: 617-494-3053
Fax:
Email:

Project Information
Project Name: Frog Switch Phase II
Project Location:
Project #
(Use Project name as Project #): ☐
Project Manager:
PACE Quote #:

Turn-Around Time
Standard ☐ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ NJ Full / Reduced
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ SRS Residential/Non Residential
☐ SRS Impact to Groundwater
☐ NJ Ground Water Quality Standards
☐ NJ IGW SPLP Leachate Criteria
☐ Other

Billing Information
☐ Same as Client Info
PO #

Site Information
Is this site impacted by Petroleum? Yes ☐
Petroleum Product:

These samples have been previously analyzed by Pace ☐

For EPH, selection is REQUIRED:
☐ Category 1
☐ Category 2

For VOC, selection is REQUIRED:
☐ 1,4-Dioxane
☐ 8011

Other project specific requirements/comments:
Please specify Metals or TAL.

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ANALYSIS

PACE Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Metals	Hex Cr	VOCs	SVOCs	PCBs	Free Cyanide	Total Solids	Sample Specific Comments	Total # Bottles
65410 -46	FROG-SS-MS-104	10/20/25	1100	S	JK	X	X	X	X	X	X	X	MS/MSD corresponds to	7
↓	FROG-SS-MSD-104	↓	1100	S	JK	X	X	X	X	X	X	X	Sample FROG-SS-122 (30-35)	7
-50	FROG-SS-FB-104	↓	1147	Aq	JK	X	X	X	X	X	X	X		10

Container Type	A	A	V	A	A	A	P
Preservative	A	A	F	A	A	A	A

Preservative Code: A = None; B = HCl; C = HNO_3; D = H_2SO_4; E = NaOH; F = MeOH; G = $NaHSO_4$; H = $Na_2S_2O_3$; K/E = Zn Ac/NaOH; O = Other

Container Code: P = Plastic; A = Amber Glass; V = Vial; G = Glass; B = Bacteria Cup; C = Cube; O = Other; E = Encore; D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
J. Klayber	10/20/25 1454	D. Bottom PACE	10/20/25 1457
D. Bottom PACE	10/20/25 1840		10/20 1840
	10/20	Anthony Green	OCT 20 2025
Anthony Green		Alberto Liz	10-21-25 0045
Alberto Liz	10-21-25 0225		10/21/25 0225

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY PACE'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-14 HC (rev. 29-Jan-2025)

CHAIN OF CUSTODY

PAGE 1 OF 1

Pace

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 10/22/25

Pace Job #: L2565410 USDOT

Client Information

Client: VSDOT Volpe Center
Address: 220 Binney Street
Cambridge, MA 02142
Phone: 617-494-3053
Fax: –
Email: Jacob.Klayber@dot.gov
☐ These samples have been previously analyzed by Pace

Project Information

Project Name: Frog Swith Phase II
Project Location: Carlisle, PA
Project #: –
Project Manager: –
Pace Quote #: –

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria
PA	PADEP MSCs

Other Project Specific Requirements/Comments/Detection Limits:
- This is the 5th and final set of samples to be submited for this project.
- Samples may contain bits of broken glass, please use caution.

Pace Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Metals + Hg 6010D	Hex Cr 7196	VOCs 8260D	SVOCs 8270E	PCBs 8082A	Free Cyanide 9016	Total Solids	Dioxins+Furans 8290A					Sample Specific Comments	TOTAL # BOTTLES
65410-51	FROG-SS-124 (floor)	10/21/25	1015	S	JK	X	X		X	X	X	X							4
-52	FROG-SS-125 (floor)		1111	S	JK	X	X		X	X	X	X							4
53	FROG-SS-126 (floor)		1230	S	JK	X	X		X	X	X	X							4
54	FROG-SS-127 (floor)		1311	S	JK	X	X	X	X	X	X	X							7
55	FROG-SS-128 (0-0.5)		1334	S	JK							X	X						2
56	FROG-SS-DUP-105		–	S	JK	X	X		X	X	X	X							4
-52	FROG-SS-MS-105		1111	S	JK	X	X		X	X	X	X						MS/MSD samples correspond to	4
-52	FROG-SS-MSD-105		1111	S	JK	X	X		X	X	X	X						sample FROG-SS-125 (floor)	4
57	FROG-SS-FB-105		1205	Aq	JK	X	X	X	X	X	X	X						Lab did not supply enough water to fill both SVOCs + PCBs blanks so only one of two jars was filled for each.	8
58	FROG-SS-EB		1036	Aq	JK	X	X	X	X	X	X	X							8
	Container Type					A	A	V	A	A	A	P	A						
	Preservative					A	A	F	A	A	A	A	A						

Relinquished By:	Date/Time	Received By:	Date/Time
J Klayber	10/21/25 1535	Pace	10/21/25 1535
Pace	10/24/25 1825	Anthony Green	OCT 24 2025 1825
Anthony Green	10/24/25 1910	Alberto Riz	10-22-25 0105

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Pace's Terms and Conditions. See reverse side.

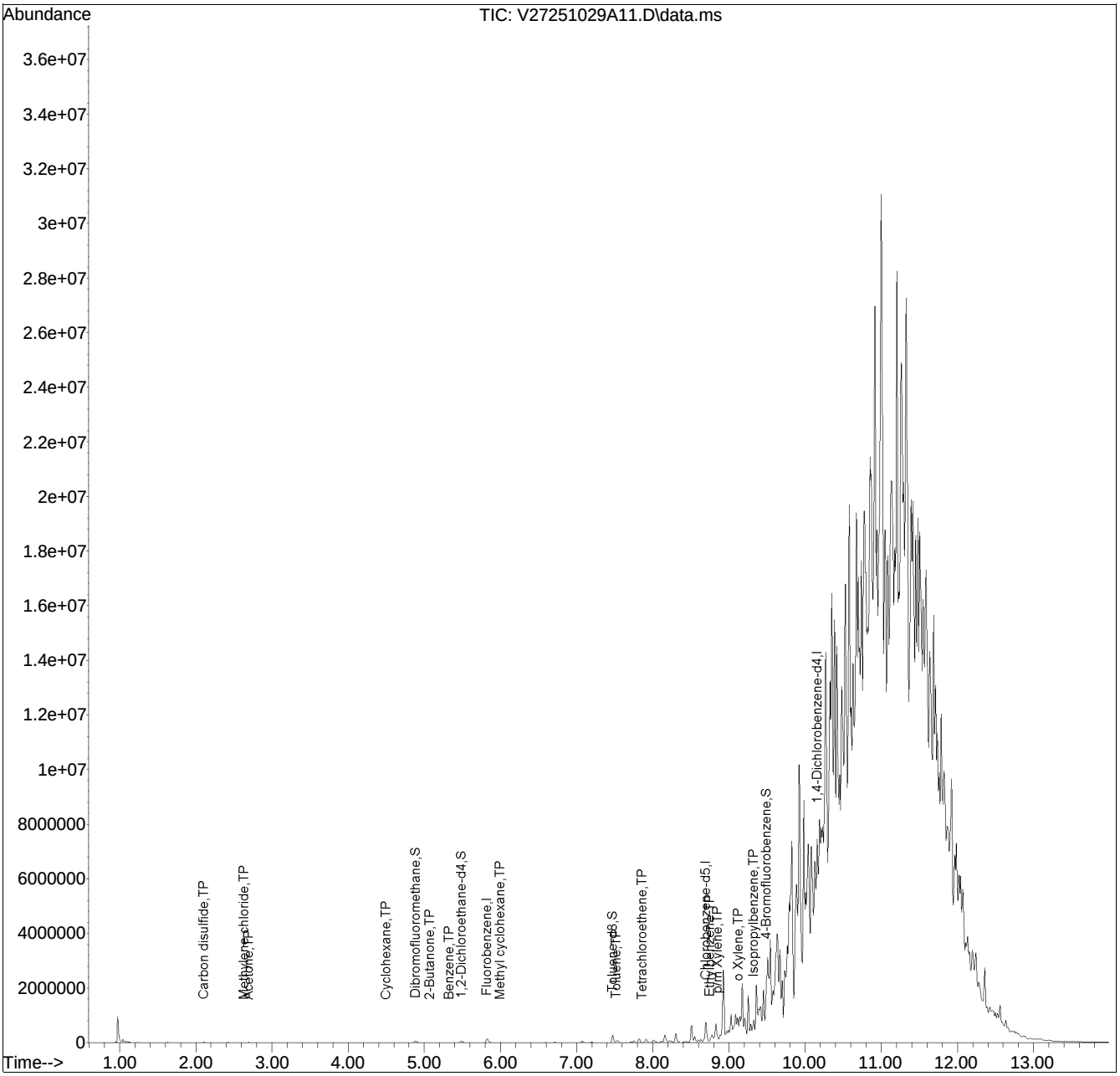
10/22 0210

Quantitation Report (QT Reviewed)

Data Path : K:\VOA127\2025\251029A\
Data File : V27251029A11.D
Acq On : 29 Oct 2025 01:00 pm
Operator : VOA127:AJK
Sample : L2565410-02,31,5.13,5,,C,32.63,38.26,0.50
Misc : WG2134938,ICAL22743
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 30 10:39:00 2025
Quant Method : K:\VOA127\2025\251029A\V127_251020A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 21 09:23:21 2025
Response via : Initial Calibration

Sub List : 8260-NJ+TBA - Standard NJ plus TBA Sublist

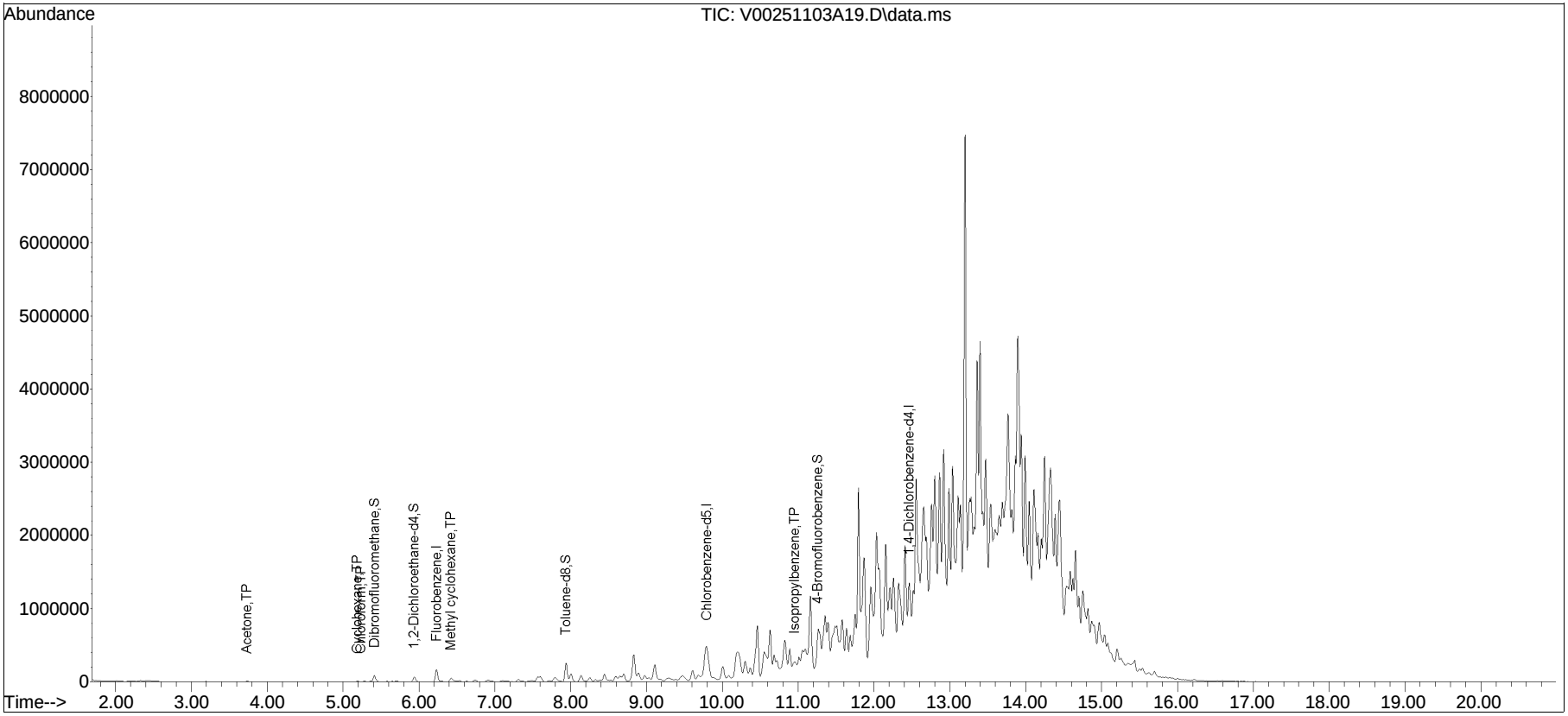


Quantitation Report (QT Reviewed)

Data Path : K:\VOA100\2025\251103A\
Data File : V00251103A19.D
Acq On : 03 Nov 2025 04:32 pm
Operator : VOA100:AJK
Sample : l2565410-49,31,6.01,5,,c,32.80,39.06,0.25
Misc : WG2136460,ICAL22760
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 04 08:09:41 2025
Quant Method : K:\VOA100\2025\251103A\V100_251024A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Oct 27 09:00:40 2025
Response via : Initial Calibration

Sub List : 8260-NJ+TBA - Standard NJ plus TBA Sublist



V100_251024A_8260.m Tue Nov 04 08:27:29 2025 Page: 3

Sample Delivery Group Summary

Pace Job Number : L2565410

Account Name : USDOT/Volpe Center
Project Number :
Project Name : FROG SWITCH PHASE II

Received : 15-OCT-2025
Reviewer : Maile Kolton

Delivery Information

Samples Delivered By : Pace Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Absent/	Ice	5.4	
B	Absent/	Ice	4.5	
C	Absent/	Ice	4.6	
D	Absent/	Ice	2.1	
E	Absent/	Ice	2.6	
F	Absent/	Ice	3.0	
G	Absent/	Ice	3.2	
H	Absent/	Ice	2.5	
I	Absent/	Ice	2.8	
J	Absent/	Ice	3.6	
K	Absent/	Ice	2.5	
L	Absent/	Ice	4.4	
M	Absent/	Ice	3.4	

Condition Information

1) All samples on COC received?	**YES**
2) Extra samples received?	**NO**
3) Are there any sample container discrepancies?	**NO**
4) Are there any discrepancies between COC & sample labels?	**NO**
5) Are samples in appropriate containers for requested analysis?	**YES**
6) Are samples properly preserved for requested analysis?	**YES**
7) Are samples within holding time for requested analysis?	**YES**
8) All sampling equipment returned?	**NA**

Sample Delivery Group Summary

Pace Job Number : L2565410
Account Name : USDOT/Volpe Center
Project Number :
Project Name : FROG SWITCH PHASE II

Received : 15-OCT-2025
Reviewer : Maile Kolton

Volatile Organics/VPH

1) Reagent Water Vials Frozen by Client? **NO**

Pace Analytical Services, LLC.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

www.pacelabs.com

Report Prepared for:

Graham Parker
Alpha Analytical
Eight Walkup Drive
Westborough MA 015811019

REPORT OF LABORATORY ANALYSIS FOR PCDD/PCDF

Report Information:

Pace Project #: 10754288
Sample Receipt Date: 10/23/2025
Client Project #: L2567524
Client Sub PO #: L2565410
State Cert #: 68-00563

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PCDD/PCDF Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Isaac Johnson, your Pace Project Manager.

This report has been reviewed by:

Isaac Johnson

November 20, 2025

Isaac Johnson, Project Manager
(612) 607-1700
(612) 607-6444 (fax)
isaac.johnson@pacelabs.com

Report Prepared Date:
November 20, 2025

Report of Laboratory Analysis

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The results relate only to the samples included in this report.

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DISCUSSION

This report presents the results from the analysis performed on one sample submitted by a representative of Alpha Analytical. The sample was analyzed for the presence or absence of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using a modified version of USEPA Method 8290A. The reporting limits were set to correspond to the lowest calibration points were adjusted for sample extraction amount. Estimated maximum possible concentration (EMPC) values were treated as positives in the toxic equivalence calculations.

Second column confirmation analyses of 2,3,7,8-TCDF values obtained from the primary (DB5-MS) column are performed only when specifically requested for a project and only when the values are above the concentration of the lowest calibration standard. Typical resolution for this isomer using the DB5-MS column ranges from 25-30%.

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extract ranged from 56-85%. All of the labeled internal standard recoveries obtained for this project were within the 40-135% target range specified in Method 8290A. Also, since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for recovery and accurate values were obtained.

Values were flagged "P" where polychlorinated diphenyl ethers were present. Concentrations above the calibration range were flagged "E" and should be regarded as estimates.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show the blank to be free of PCDDs and PCDFs at the reporting limits.

Laboratory spike samples were also prepared using clean reference matrix that had been fortified with native standard materials. The results show that the spiked native compounds were recovered at 85-115% with relative percent differences of 2.1-13.6%. These results were within the target ranges for the method. Matrix spikes were not prepared with the extraction batch.

REPORT OF LABORATORY ANALYSIS

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Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
		Missouri	10100
		Montana	CERT0092
A2LA	2926.01	Nebraska	NE-OS-18-06
Alabama	40770	Nevada	MN00064
Alaska-DW	MN00064	New Hampshire	2081
Alaska-UST	17-009	New Jersey	MN002
Arizona	AZ0014	New York	11647
Arkansas - WW	88-0680	North Carolina-DW	27700
Arkansas-DW	MN00064	North Carolina-WW	530
California	2929	North Dakota	R-036
Colorado	MN00064	Ohio-DW	41244
Connecticut	PH-0256	Ohio-VAP (1700)	CL101
Florida	E87605	Ohio-VAP (1800)	CL110
Georgia	959	Oklahoma	9507
Idaho	MN00064	Oregon-Primary	MN300001
Illinois	200011	Oregon-Secondary	MN200001
Indiana	C-MN-01	Pennsylvania	68-00563
Iowa	368	Puerto Rico	MN00064
Kansas	E-10167	South Carolina	74003
Kentucky-DW	90062	Tennessee	TN02818
Kentucky-WW	90062	Texas	T104704192
Louisiana-DEQ	AI-84596	Utah	MN00064
Louisiana-DW	MN00064	Vermont	VT-027053137
Maine	MN00064	Virginia	460163
Maryland	322	Washington	C486
Michigan	9909	West Virginia-DEP	382
Minnesota	027-053-137	West Virginia-DW	9952C
Minnesota-Ag	via MN 027-053-137	Wisconsin	999407970
Minnesota-Petrofund	1240	Wyoming-UST	via A2LA 2926.01
Mississippi	MN00064		

REPORT OF LABORATORY ANALYSIS

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Appendix A

Sample Management

REPORT OF LABORATORY ANALYSIS

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Pace®

Subcontract Chain of Custody

Pace Analytical (MN)
1700 Elm Street, Suite 200
Minneapolis, MN 55414

Pace Job Number
~~L2565410~~ *
L2567524

Page 1

Client Information

Client: Pace Analytical Labs
Address: Eight Walkup Drive
Westborough, MA 01581-1019

Report To:west.subreports@pacelabs.com
Bill To:invoices@pacelabs.coupahost.com

Phone: 508.439.5160
Email: Graham.Parker@pacelabs.com

Project Information

Project Location: PA
Project Manager: Graham Parker

Turnaround & Deliverables Information

Due Date:
Deliverables:

Regulatory Requirements/Report Limits

State/Federal Program:
Regulatory Criteria: PA-RDCS

Report to RL

Project Specific Requirements and/or Report Requirements

Reference following Pace Job Number on final report/deliverables: L2565410 Report to include Method and/or Regulatory required batch QC

Additional Comments:

Lab ID	Pace ID *	Client ID **	Collection Date/Time	Sample Matrix	Analysis	Sample Level Comments	Sample Specific QC	Container Count
001	~~L2565410-55~~ L2567254-01	FROG-SS-128 (~~FLOOR~~) (0-0.5)	10-21-25 13:34	SOIL	Dioxins by EPA 8290			2

WO# : 10754288

10754288

*GLP (PAS) 10/24/25
**GLP (PAS) 10/29/25

	Relinquished By:	Date/Time:	Received By:	Date/Time:
	C Telvan			10/23/25 900

Form No: AL_subcoc

ENV-FRM-MIN4-0150 v21_Sample Condition Upon Receipt

Person Examining & Date: JMW1 10/23/25 PROJECT # **WO#: 10754288**

PM: IJJ Due Date: 11/13/25

CLIENT: Alpha

Client Name: Alpha Analytical

Custody Seal Present: ☐ YES ☑ NO Seals Intact: ☐ YES ☑ NO

Tracking Number: 8853 9550 3892 ☐ See Exceptions form ENV-FRM-MIN4-0142.

Courier: ☐ Client ☐ Commercial ☑ FedEx ☐ Pace Courier/Field ☐ SpeeDee ☐ UPS ☐ USPS

Packing Material: ☑ Bubble Bags ☐ Bubble Wrap ☐ None ☐ Other: _____ Biological Tissue Frozen: ☐ YES ☑ NO

Thermometer: ☐ T1 (0461) ☐ T2 (0431) ☐ T3 (0459) ☐ T4 (0402) ☐ T5 (0187) ☑ T6 (0396) ☐ T7 (0377) ☐ T8 (0775) ☐ T9 (0428) ☐ 01339252 (0710)

Type of Ice: ☐ Blue ☐ Dry ☑ Wet ☐ Melted ☐ None

Temp Blank: ☐ YES ☑ NO

NOTE: Temp should be ≤ 6°C, but above freezing.

Read Temp w/Temp Blank: _____ °C

Correction Factor: 10.3

Corrected Temp w/Temp Blank: _____ °C

Did Samples Originate in West Virginia: ☐ YES ☑ NO (list temps on exception)

Were All Container Temps Taken: ☐ YES ☐ NO ☑ N/A

Average Corrected Temp (No Temp Blank Only): 1.2

☑ See Exceptions form ENV-FRM-MIN4-0142. ☐ 1 Container

USDA Regulated Soil: ☐ N/A – Water Sample/Other (describe): _____

Did Samples originate from one of the following states (check maps): ☐ YES ☑ NO

Circle State: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, VA

Are samples from a foreign source (international, including Hawaii and Puerto Rico): ☐ YES ☑ NO

NOTE: If YES to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.

LOCATION (check one): ☐ DULUTH ☑ MINNEAPOLIS ☐ VIRGINIA	YES	NO	N/A	COMMENT(S)
Chain of Custody Present and Filled Out? **(i.e., Analysis/ID/Date/Time)**	☑	☐		1.
Chain of Custody Relinquished?	☑	☐		2.
Sampler Name and/or Signature on COC?	☐	☐	☑	3.
Samples Arrived within Hold Time? **NOTE:** < 24 hrs if lab filter is requested for Dissolved LL-Mercury by 1631E.	☑	☐		4. If Fecal: ☐ < 8 hrs ☐ > 8 hr but < 24 hrs ☐ >24 hr
Short Hold Time Analysis (<72 hr)?	☐	☑		5. ☐ BOD / cBOD ☐ Fecal coliform ☐ Hex Chrom ☐ HPC ☐ Nitrate ☐ Nitrite ☐ Ortho Phos ☐ Total coliform/*E. coli* ☐ Turbidity ☐ Other: _____
Rush Turn Around Time Requested?	☐	☑		6. ☐ Same Day ☐ 1 Day ☐ 2 Day ☐ 3 Day ☐ 5 Day Due Date: _____
Sufficient Sample Volume? **(If NO, list approximate volume in section 7.)**	☑	☐		7.
Correct Containers Used? – Pace Containers Used?	☑ ☐	☐ ☑	☐	8.
Containers Intact?	☑	☐		9.
Field Filtered Volume Received for Dissolved Tests?	☐	☐	☑	10. Is sediment visible in the dissolved container: ☐ YES ☐ NO
ID/Date/Time Match? **(If NO, fill out section 11.)** Matrix: ☐ Oil ☑ Soil ☐ Water ☐ Other	☑	☐	☐	11. ☐ See Exceptions form ENV-FRM-MIN4-0142
All containers needing acid/base preservation have been checked?	☐	☐	☑	12.
Sample #: ☐ HNO3 _____ ☐ H2SO4 _____ ☐ NaOH _____ ☐ Zinc Acetate _____ **pH Paper Lot #:** ☐ Residual Chlorine _____ ☐ 0-6 Roll _____ ☐ 0-6 Strip _____ ☐ 0-14 Strip _____ **Positive for Residual Chlorine (NaOH containers only): ☐ YES ☐ NO**				
Preserved containers in compliance with EPA recommendations? (HNO3, H2SO4, < 2 pH, NaOH > 9 Sulfide, NaOH > 10 Cyanide)	☐	☐	☑	☐ See Exceptions form ENV-FRM-MIN4-0142
EXCEPTIONS (water only): VOA, Coliform, TOC/DOC, Oil & Grease, Phenols, DRO/8015, Dioxins, and PFAS	☐	☐	☑	
Extra labels present on soil VOA or WIDRO containers? **(soil only)**	☐	☐	☑	13.
Headspace in Methyl Mercury Container?	☐	☐	☑	14.
Headspace in VOA Vials (greater than 6mm)?	☐	☐	☑	☐ See Exceptions form ENV-FRM-MIN4-0140
Trip Blanks Present?	☐	☑	☐	15.
Trip Blank Custody Seals Present?	☐	☐	☑	Pace Trip Blank Lot # (if purchased): _____

CLIENT NOTIFICATION / RESOLUTION:

Labeled By: JMW1 Line: 4

Person Contacted & Date/Time: _____ PM Review & Date: Isaac Johnson 10/23/25

NOTE: *When there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEQ Certification Office.*

ENV-FRM-MIN4-0142 v05_Sample Condition Upon Receipt - Exceptions

Workorder #: _____

Anything is OVER 6.0°C, MUST be documented in the sections below.

Tracking Number	Temperature (°C)

Out of Temp Sample ID	Container Type	# of Containers

PM Notified of Out of Temp Cooler? ☐ YES ☐ NO | **Multiple Cooler Project?** ☐ YES ☐ NO

If **YES**, indicate who was contacted, date, and time: _____

If **NO**, indicate reason why: ☐ All Nitric ☐ Not on ice ☐ Sampled same day ☐ Other: _____

No Temp Blank

Temp Gun: TG Correction Factor: +0.3

Read Temp	Corrected Temp	Average Temp
1.3	1.6	1.2
0.4	0.7	

Other	

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative		pH Upon Receipt	Date / Time Adjusted	Amount Added (mL)	Lot # Added	ph After	In Compliance After?		Initials
	HNO_3	H_2SO_4						YES	NO	
	☐	☐						☐	☐	
	☐	☐						☐	☐	
	☐	☐						☐	☐	
	☐	☐						☐	☐	
	☐	☐						☐	☐	
	☐	☐						☐	☐	
	☐	☐						☐	☐	
	☐	☐						☐	☐	
	☐	☐						☐	☐	
	☐	☐						☐	☐	

COMMENT(S):

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Minneapolis, MN 55414
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www.pacelabs.com

Reporting Flags

A = Reporting Limit based on signal to noise (EDL)

B = Less than 10x higher than method blank level

C = Result obtained from confirmation analysis

D = Result obtained from analysis of diluted sample

E = Exceeds calibration range

I = Value between the MDL and the PQL

J = Estimated value

L = Suppressive interference, analyte may be biased low

Nn = Value obtained from additional analysis

P = PCDE Interference

R = Recovery outside target range

S = Peak saturated

U = Analyte not detected

V = Result verified by confirmation analysis

X = %D Exceeds limits

Y = Calculated using average of daily RFs

* = See Discussion

REPORT OF LABORATORY ANALYSIS

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Appendix B

Sample Analysis Summary

REPORT OF LABORATORY ANALYSIS

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1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290A Sample Analysis Results

Client - Alpha Analytical

Client's Sample ID	FROG-SS-128 (0-0.5)		
Lab Sample ID	10754288001-R		
Filename	U251119B_04		
Injected By	SMT		
Total Amount Extracted	14.2 g	Matrix	SOLID
% Moisture	30.3	Dilution	NA
Dry Weight Extracted	9.91 g	Collected	10/21/2025 13:34
ICAL ID	U250825	Received	10/23/2025 09:00
CCal Filename(s)	U251119B_02 & U251119B_18	Extracted	11/13/2025 12:00
Method Blank ID	BLANK-122138	Analyzed	11/19/2025 14:29

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	3.0	-----	1.0		2,3,7,8-TCDF-13C	2.00	83
Total TCDF	33	-----	1.0		2,3,7,8-TCDD-13C	2.00	79
					1,2,3,7,8-PeCDF-13C	2.00	76
2,3,7,8-TCDD	1.4	-----	1.0		2,3,4,7,8-PeCDF-13C	2.00	77
Total TCDD	16	-----	1.0		1,2,3,7,8-PeCDD-13C	2.00	83
					1,2,3,4,7,8-HxCDF-13C	2.00	85
1,2,3,7,8-PeCDF	ND	-----	5.0		1,2,3,6,7,8-HxCDF-13C	2.00	77
2,3,4,7,8-PeCDF	ND	-----	5.0		2,3,4,6,7,8-HxCDF-13C	2.00	74
Total PeCDF	63	-----	5.0		1,2,3,7,8,9-HxCDF-13C	2.00	72
					1,2,3,4,7,8-HxCDD-13C	2.00	78
1,2,3,7,8-PeCDD	15	-----	5.0		1,2,3,6,7,8-HxCDD-13C	2.00	84
Total PeCDD	47	-----	5.0		1,2,3,4,6,7,8-HpCDF-13C	2.00	73
					1,2,3,4,7,8,9-HpCDF-13C	2.00	71
1,2,3,4,7,8-HxCDF	-----	28	5.0	P	1,2,3,4,6,7,8-HpCDD-13C	2.00	78
1,2,3,6,7,8-HxCDF	15	-----	5.0		OCDD-13C	4.00	56
2,3,4,6,7,8-HxCDF	17	-----	5.0				
1,2,3,7,8,9-HxCDF	ND	-----	5.0		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	270	-----	5.0		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	29	-----	5.0		2,3,7,8-TCDD-37Cl4	0.20	75
1,2,3,6,7,8-HxCDD	45	-----	5.0				
1,2,3,7,8,9-HxCDD	66	-----	5.0				
Total HxCDD	390	-----	5.0				
1,2,3,4,6,7,8-HpCDF	350	-----	5.0		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	24	-----	5.0		Equivalence: 61 ng/Kg		
Total HpCDF	800	-----	5.0		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	1400	-----	5.0				
Total HpCDD	2700	-----	5.0				
OCDF	870	-----	10				
OCDD	22000	-----	10	E			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.
P = PCDE Interference
E = Exceeds calibration range

REPORT OF LABORATORY ANALYSIS

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Minneapolis, MN 55414

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Fax: 612- 607-6444

Method 8290A Blank Analysis Results

Lab Sample Name	DFBLKDD		
Lab Sample ID	BLANK-122138	Matrix	Solid
Filename	L251119A_08	Dilution	NA
Total Amount Extracted	10.9 g	Extracted	11/13/2025 12:00
ICAL ID	L250710	Analyzed	11/19/2025 14:20
CCal Filename(s)	L251118B_16 & L251119A_15	Injected By	SMT

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.91	2,3,7,8-TCDF-13C	2.00	83
Total TCDF	ND	-----	0.91	2,3,7,8-TCDD-13C	2.00	74
				1,2,3,7,8-PeCDF-13C	2.00	79
2,3,7,8-TCDD	ND	-----	0.91	2,3,4,7,8-PeCDF-13C	2.00	84
Total TCDD	ND	-----	0.91	1,2,3,7,8-PeCDD-13C	2.00	96
				1,2,3,4,7,8-HxCDF-13C	2.00	86
1,2,3,7,8-PeCDF	ND	-----	4.6	1,2,3,6,7,8-HxCDF-13C	2.00	88
2,3,4,7,8-PeCDF	ND	-----	4.6	2,3,4,6,7,8-HxCDF-13C	2.00	84
Total PeCDF	ND	-----	4.6	1,2,3,7,8,9-HxCDF-13C	2.00	76
				1,2,3,4,7,8-HxCDD-13C	2.00	78
1,2,3,7,8-PeCDD	ND	-----	4.6	1,2,3,6,7,8-HxCDD-13C	2.00	97
Total PeCDD	ND	-----	4.6	1,2,3,4,6,7,8-HpCDF-13C	2.00	77
				1,2,3,4,7,8,9-HpCDF-13C	2.00	69
1,2,3,4,7,8-HxCDF	ND	-----	4.6	1,2,3,4,6,7,8-HpCDD-13C	2.00	77
1,2,3,6,7,8-HxCDF	ND	-----	4.6	OCDD-13C	4.00	55
2,3,4,6,7,8-HxCDF	ND	-----	4.6			
1,2,3,7,8,9-HxCDF	ND	-----	4.6	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	4.6	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	4.6	2,3,7,8-TCDD-37Cl4	0.20	154
1,2,3,6,7,8-HxCDD	ND	-----	4.6			
1,2,3,7,8,9-HxCDD	ND	-----	4.6			
Total HxCDD	ND	-----	4.6			
1,2,3,4,6,7,8-HpCDF	ND	-----	4.6	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	4.6	Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	-----	4.6	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	4.6			
Total HpCDD	ND	-----	4.6			
OCDF	ND	-----	9.1			
OCDD	ND	-----	9.1			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

Results reported on a total weight basis and are valid to no more than 2 significant figures.

REPORT OF LABORATORY ANALYSIS

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1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290A Laboratory Control Spike Results

Lab Sample ID	LCS-122139		
Filename	L251119A_10	Matrix	Solid
Total Amount Extracted	11.0 g	Dilution	NA
ICAL ID	L250710	Extracted	11/13/2025 12:00
CCal Filename(s)	L251118B_16 & L251119A_15	Analyzed	11/19/2025 15:51
Method Blank ID	BLANK-122138	Injected By	SMT

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.20	101	2,3,7,8-TCDF-13C	2.0	83
				2,3,7,8-TCDD-13C	2.0	73
				1,2,3,7,8-PeCDF-13C	2.0	85
2,3,7,8-TCDD	0.20	0.22	111	2,3,4,7,8-PeCDF-13C	2.0	92
				1,2,3,7,8-PeCDD-13C	2.0	105
				1,2,3,4,7,8-HxCDF-13C	2.0	88
1,2,3,7,8-PeCDF	1.0	1.1	110	1,2,3,6,7,8-HxCDF-13C	2.0	92
2,3,4,7,8-PeCDF	1.0	0.99	99	2,3,4,6,7,8-HxCDF-13C	2.0	87
				1,2,3,7,8,9-HxCDF-13C	2.0	79
				1,2,3,4,7,8-HxCDD-13C	2.0	80
1,2,3,7,8-PeCDD	1.0	0.96	96	1,2,3,6,7,8-HxCDD-13C	2.0	103
				1,2,3,4,6,7,8-HpCDF-13C	2.0	87
				1,2,3,4,7,8,9-HpCDF-13C	2.0	84
1,2,3,4,7,8-HxCDF	1.0	0.98	98	1,2,3,4,6,7,8-HpCDD-13C	2.0	87
1,2,3,6,7,8-HxCDF	1.0	1.0	104	OCDD-13C	4.0	67
2,3,4,6,7,8-HxCDF	1.0	1.0	103			
1,2,3,7,8,9-HxCDF	1.0	0.96	96	1,2,3,4-TCDD-13C	2.0	NA
				1,2,3,7,8,9-HxCDD-13C	2.0	NA
1,2,3,4,7,8-HxCDD	1.0	1.1	113	2,3,7,8-TCDD-37Cl4	0.20	153
1,2,3,6,7,8-HxCDD	1.0	0.96	96			
1,2,3,7,8,9-HxCDD	1.0	0.90	90			
1,2,3,4,6,7,8-HpCDF	1.0	1.0	104			
1,2,3,4,7,8,9-HpCDF	1.0	0.97	97			
1,2,3,4,6,7,8-HpCDD	1.0	1.0	102			
OCDF	2.0	2.1	106			
OCDD	2.0	2.3	115			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
R = Recovery outside of target range

Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290A Laboratory Control Spike Results

Lab Sample ID	LCSD-122140		
Filename	L251119A_11	Matrix	Solid
Total Amount Extracted	10.9 g	Dilution	NA
ICAL ID	L250710	Extracted	11/13/2025 12:00
CCal Filename(s)	L251118B_16 & L251119A_15	Analyzed	11/19/2025 16:37
Method Blank ID	BLANK-122138	Injected By	SMT

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.19	96	2,3,7,8-TCDF-13C	2.0	82
				2,3,7,8-TCDD-13C	2.0	71
				1,2,3,7,8-PeCDF-13C	2.0	76
2,3,7,8-TCDD	0.20	0.21	105	2,3,4,7,8-PeCDF-13C	2.0	83
				1,2,3,7,8-PeCDD-13C	2.0	94
				1,2,3,4,7,8-HxCDF-13C	2.0	85
1,2,3,7,8-PeCDF	1.0	1.0	100	1,2,3,6,7,8-HxCDF-13C	2.0	94
2,3,4,7,8-PeCDF	1.0	0.93	93	2,3,4,6,7,8-HxCDF-13C	2.0	88
				1,2,3,7,8,9-HxCDF-13C	2.0	79
				1,2,3,4,7,8-HxCDD-13C	2.0	74
1,2,3,7,8-PeCDD	1.0	0.88	88	1,2,3,6,7,8-HxCDD-13C	2.0	101
				1,2,3,4,6,7,8-HpCDF-13C	2.0	81
				1,2,3,4,7,8,9-HpCDF-13C	2.0	79
1,2,3,4,7,8-HxCDF	1.0	0.90	90	1,2,3,4,6,7,8-HpCDD-13C	2.0	87
1,2,3,6,7,8-HxCDF	1.0	0.92	92	OCDD-13C	4.0	65
2,3,4,6,7,8-HxCDF	1.0	0.97	97			
1,2,3,7,8,9-HxCDF	1.0	0.94	94	1,2,3,4-TCDD-13C	2.0	NA
				1,2,3,7,8,9-HxCDD-13C	2.0	NA
1,2,3,4,7,8-HxCDD	1.0	1.0	104	2,3,7,8-TCDD-37Cl4	0.20	143
1,2,3,6,7,8-HxCDD	1.0	0.90	90			
1,2,3,7,8,9-HxCDD	1.0	0.85	85			
1,2,3,4,6,7,8-HpCDF	1.0	0.99	99			
1,2,3,4,7,8,9-HpCDF	1.0	0.88	88			
1,2,3,4,6,7,8-HpCDD	1.0	0.89	89			
OCDF	2.0	2.0	98			
OCDD	2.0	2.2	110			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
R = Recovery outside of target range

Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290A

Spike Recovery Relative Percent Difference (RPD) Results

Client	Alpha Analytical		
Spike 1 ID	LCS-122139	Spike 2 ID	LCSD-122140
Spike 1 Filename	L251119A_10	Spike 2 Filename	L251119A_11

Compound	Spike 1 %REC	Spike 2 %REC	%RPD
2,3,7,8-TCDF	101	96	5.1
2,3,7,8-TCDD	111	105	5.6
1,2,3,7,8-PeCDF	110	100	9.5
2,3,4,7,8-PeCDF	99	93	6.3
1,2,3,7,8-PeCDD	96	88	8.7
1,2,3,4,7,8-HxCDF	98	90	8.5
1,2,3,6,7,8-HxCDF	104	92	12.2
2,3,4,6,7,8-HxCDF	103	97	6.0
1,2,3,7,8,9-HxCDF	96	94	2.1
1,2,3,4,7,8-HxCDD	113	104	8.3
1,2,3,6,7,8-HxCDD	96	90	6.5
1,2,3,7,8,9-HxCDD	90	85	5.7
1,2,3,4,6,7,8-HpCDF	104	99	4.9
1,2,3,4,7,8,9-HpCDF	97	88	9.7
1,2,3,4,6,7,8-HpCDD	102	89	13.6
OCDF	106	98	7.8
OCDD	115	110	4.4

%REC = Percent Recovered
RPD = The difference between the two values divided by the mean value

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL REPORT

Lab Number:	L2574443
Client:	USDOT/Volpe Center 220 Binney Street Cambridge, MA 02142
ATTN:	Jacob Klaybor
Phone:	(617) 494-3053
Project Name:	FROG SWITCH PHASE II
Project Number:	Not Specified
Report Date:	12/03/25

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2574443
Report Date: 12/03/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2574443-01	FROG-SS-119 (0.5-1)	SOIL	CARLISLE, PA	10/16/25 13:45	10/16/25

Project Name:	FROG SWITCH PHASE II	**Lab Number:**	L2574443
Project Number:	Not Specified	**Report Date:**	12/03/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	FROG SWITCH PHASE II	**Lab Number:**	L2574443
Project Number:	Not Specified	**Report Date:**	12/03/25

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Total Metals

L2574443-01: The sample has an elevated detection limit due to the dilution required by the sample matrix.

Chromium, Hexavalent

L2574443-01: The sample was analyzed with the method required holding time exceeded.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Tiffani Morrissey - Tiffani Morrissey

Title: Technical Director/Representative Date: 12/03/25

METALS

Project Name: FROG SWITCH PHASE II
Lab Number: L2574443
Project Number: Not Specified
Report Date: 12/03/25

SAMPLE RESULTS

Lab ID: L2574443-01
Client ID: FROG-SS-119 (0.5-1)
Sample Location: CARLISLE, PA
Date Collected: 10/16/25 13:45
Date Received: 10/16/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	222		mg/kg	4.32	3.66	10	10/22/25 10:32	10/30/25 00:12	EPA 3050B	1,6010D	MFR
General Chemistry - Mansfield Lab											
Chromium, Trivalent	220		mg/kg	4.32	3.66	1		11/26/25 10:43	NA	107,-	

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2574443
Report Date: 12/03/25

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG2131135-1										
Chromium, Total	ND		mg/kg	0.400	0.339	1	10/22/25 10:32	10/24/25 13:16	1,6010D	EFM

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2574443
Report Date: 12/03/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG2131135-2								
Chromium, Total	92		-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2574443
Report Date: 12/03/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01	QC Batch ID: WG2131135-3	WG2131135-4	QC Sample: L2565389-12	Client ID: MS Sample								
Chromium, Total	4.69	16.9	19.6	88		19.8	87		75-125	1		20

INORGANICS
&
MISCELLANEOUS

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2574443
Report Date: 12/03/25

SAMPLE RESULTS

Lab ID: L2574443-01
Client ID: FROG-SS-119 (0.5-1)
Sample Location: CARLISLE, PA
Sample Depth:
Matrix: Soil
Date Collected: 10/16/25 13:45
Date Received: 10/16/25
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.0		%	0.100	NA	1	-	10/17/25 14:49	121,2540G	ROI
Chromium, Hexavalent	2.44		mg/kg	0.899	0.180	1	11/25/25 10:10	11/26/25 10:43	1,7196A	RDS

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified
Lab Number: L2574443
Report Date: 12/03/25

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG2146251-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	11/25/25 10:10	11/26/25 10:43	1,7196A	RDS

Lab Control Sample Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2574443
Report Date: 12/03/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG2146251-2								
Chromium, Hexavalent	100		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2574443
Report Date: 12/03/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG2146251-4 QC Sample: L2574443-01 Client ID: FROG-SS-119 (0.5-1)												
Chromium, Hexavalent	2.44	1530	1270	83		-	-		75-125	-		

Lab Duplicate Analysis

Batch Quality Control

Project Name: FROG SWITCH PHASE II

Project Number: Not Specified

Lab Number: L2574443

Report Date: 12/03/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG2129224-1 QC Sample: L2565410-25 Client ID: DUP Sample						
Solids, Total	83.9	85.0	%	1		10
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG2146251-6 QC Sample: L2574443-01 Client ID: FROG-SS-119 (0.5-1)						
Chromium, Hexavalent	2.44	2.28	mg/kg	7		20

Project Name: FROG SWITCH PHASE II
Project Number: Not Specified

Lab Number: L2574443
Report Date: 12/03/25

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent
D	Absent
E	Absent
F	Absent
G	Absent
H	Absent
I	Absent
J	Absent
K	Absent
L	Absent
M	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2574443-01F	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name:	FROG SWITCH PHASE II	**Lab Number:**	L2574443
Project Number:	Not Specified	**Report Date:**	12/03/25

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	FROG SWITCH PHASE II	**Lab Number:**	L2574443
Project Number:	Not Specified	**Report Date:**	12/03/25

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	FROG SWITCH PHASE II	**Lab Number:**	L2574443
Project Number:	Not Specified	**Report Date:**	12/03/25

Data Qualifiers

estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - 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.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: FROG SWITCH PHASE II **Lab Number:** L2574443

Project Number: Not Specified **Report Date:** 12/03/25

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

107 Calculation method.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
MADEP-APH.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, SM4500CL-G, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT.**

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1: Hg. **EPA 245.7:** Hg.
SM2340B

Certification IDs:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
CT PH-0826, IL 200077, IN C-MA-03, KY kY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
MA M-MA00030, CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 85084, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
ANAB/DoD L2474, LA 245052, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

For a complete listing of analytes and methods, please contact your Project Manager.

CHAIN OF CUSTODY

PAGE 1 OF ~~2~~ 1

Pace
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 10/17/25

Pace Job #: L2574443 ~~L2565410~~

Client Information
Client: VSDOT Volpe Center
Address: 220 Binney Street, Cambridge, MA 02142
Phone: 617-494-3053
Fax: –
Email: Jacob.Klaybor@dot.gov
☐ These samples have been previously analyzed by Pace

Project Information
Project Name: Frog Switch Phase II
Project Location: Carlise, PA
Project #: –
Project Manager: –
Pace Quote #: –

Turn-Around Time
☒ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables
☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information
☒ Same as Client info PO #:

Regulatory Requirements/Report Limits
State /Fed Program: PA Criteria: PADEP MSCs

Other Project Specific Requirements/Comments/Detection Limits:

Pace Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Metals + Hg 6010D	Hex Cr 7196	VOCs 8260D	SVOCs 8270 SIM E	PCBs 8082A	Free Cyanide 9016	Total Solids	Trivalent Chromium	Sample Specific Comments	TOTAL # BOTTLES
65710 15	FROG-SS-118(0-2)	10/16/25	1420	S	JK	X	X	X	X	X	X	X			7
16	FROG-SS-118(10-12)		1423	S	LC	X	X	X	X	X	X	X			7
4443-01 17	FROG-SS-119(0.5-1)		1345	S	LC	X		X	X	X	X	X	X	Limited volume, prioritize PCBs + SVOCs if all cannot be run	6
18	FROG-SS-111(0-2)		1028	S	JK	X	X	X	X	X	X	X			7
19	FROG-SS-111(11-13)		1030	S	LC	X	X	X	X	X	X	X			7
20	FROG-SS-112(0-2)		1120	S	JK	X	X	X	X	X	X	X			7
21	FROG-SS-112(7-9)		1122	S	LC	X	X	X	X	X	X	X			7
22	FROG-SS-120(0-2)		0800	S	JK	X	X	X	X	X	X	X			7
23	FROG-SS-120(2-3.5)		0805	S	JK	X	X	X	X	X	X	X			7
24	FROG-SS-121(0-2)		0906	S	JK	X	X	X	X	X	X	X			7
	Container Type					A	A	V	A	A	A	A			
	Preservative					A	A	F	A	A	A	A			

SAMPLE HANDLING
Filtration ☐ Done ☐ Not needed ☐ Lab to do
Preservation ☐ Lab to do (Please specify below)

*GLP (PAS) 11/25/25

Relinquished By:	Date/Time	Received By:	Date/Time
J. Klaybor	10/16/25 1617	PACE	10-16-25 1617
Anthony Green	10/16	Anthony Green	OCT 16 2025 2330
Alberto Liz	10-17-25 0420	Alberto Liz	10-17-25 0230

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Pace's Terms and Conditions. See reverse side.

10/17/25 0420

Sample Delivery Group Summary

Pace Job Number : L2574443

Account Name : USDOT/Volpe Center
Project Number :
Project Name : FROG SWITCH PHASE II

Received : 16-OCT-2025
Reviewer : William McClendon

Delivery Information

Samples Delivered By : Pace Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Absent/	Ice	5.4	
B	Absent/	Ice	4.5	
C	Absent/	Ice	4.6	
D	Absent/	Ice	3.6	
E	Absent/	Ice	2.5	
F	Absent/	Ice	4.4	
G	Absent/	Ice	3.4	
H	Absent/	Ice	2.1	
I	Absent/	Ice	2.6	
J	Absent/	Ice	3.0	
K	Absent/	Ice	3.2	
L	Absent/	Ice	2.5	
M	Absent/	Ice	2.8	

Condition Information

1) All samples on COC received?	**YES**
2) Extra samples received?	**NO**
3) Are there any sample container discrepancies?	**NO**
4) Are there any discrepancies between COC & sample labels?	**NO**
5) Are samples in appropriate containers for requested analysis?	**YES**
6) Are samples properly preserved for requested analysis?	**YES**
7) Are samples within holding time for requested analysis?	**YES**
8) All sampling equipment returned?	**NA**

Sample Delivery Group Summary

Pace Job Number : L2574443

Account Name : USDOT/Volpe Center
Project Number :
Project Name : FROG SWITCH PHASE II

Received : 16-OCT-2025
Reviewer : William McClendon

Volatile Organics/VPH

1) Reagent Water Vials Frozen by Client? **NA**

ENV-FORM-WES2-0065 v03 Certificate/Approval Program Summary

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

PAS-WES2 Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

PAS-MANS Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
SM 2540D: TSS.
Biological Tissue Matrix: EPA 3050B

PAS-MAN1 Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
MADEP-APH.

PAS-ELON East Longmeadow Facility – 39 Spruce Street East Longmeadow, MA 01028
EPA 524.2: 1,3,5-Trichlorobenzene, m/p-Xylene, o-xylene.
EPA 625.1: 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, N-Nitrosodiphenylamine.
EPA 8081B NPW and SCM: Alachlor, Endrin Ketone, Hexachlorobenzene.
EPA 8260D NPW: Tetrahydrofuran, 1,3,5-Trichlorobenzene; **SCM:** TAME, TBEE, Diethyl ether, DIPE, Tetrahydrofuran. 1,3,5-Trichlorobenzene, Freon-113.
EPA 8270E: NPW: Carbazole, 1-Methylnaphthalene, Pentachloronitrobenzene; **SCM:** Carbazole, 1-Methylnaphthalene.
EPA TO-13: Air: Benzo(e)pyrene, 1-Methylnaphthalene, 2-Methylnaphthalene, Perylene.
EPA TO-4A Pesticide Air: delta-BHC, Endosulfan I, Endosulfan II, Endosulfan Sulfate, Endrin, Endrin Aldehyde, Endrin Ketone, Hexachlorobenzene, Methoxychlor.
SM4500: NPW: Amenable Cyanide; **SCM:** Total Phosphorus, TKN, NH3, NECi: NO2, NO3, ASTMD516.

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

PAS-MANS Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

The following analytes are included in our Massachusetts DEP Scope of Accreditation:

PAS-WES2 Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 504.1: EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM4500CL-G, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT.**

PAS-MANS Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1: Hg. **EPA 245.7:** Hg.
SM2340B

ENV-FORM-WES2-0065 v03 Certificate/Approval Program Summary

PAS-ELON East Longmeadow Facility – 39 Spruce Street East Longmeadow, MA 01028

Drinking Water
EPA 300.0: NO3, NO2, Fl, Cl, SO4. **NECI Reductase**: NO3, NO2.
SM4500F-C, SM4500Cl-B, SM4500CN-C,E, EPA 180.1, SM2320B, SM 2540C, SM4500H-B, SM4500SO4-E.
EPA 537.1; EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: SM9223-P/A: TC/EC; SM9223B-Colilert-enumeration: TC/EC; HPC-Simplate.

Non-Potable Water
SM4500H-B, SM2510B, SM2540C, SM2320B, SM4500Cl-B, SM4500NH3-B, C, EPA 350.1, NECi: NO3, **SM4500NH3-B, C: TKN, SM4500P-E: Ortho Phosphate, SM4500P-B, E: Total Phosphorus, EPA 410.4, SM5210B, SM5310C, SM4500CN-C, E, SM2540D, SM4500Cl-G, SM4500SO4-E, EPA 1664, EPA 420.1, EPA 300.0:** Cl, SO4, NO3.
EPA 624.1: Volatile Halocarbons, Volatile Aromatics.
EPA 608.3: Chlordane, Toxaphene, Aldrin, Alpha-BHC, Beta-BHC, Gamma-BHC, Delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan Sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs.
EPA 625.1: SVOC-Acid Extractables and Base/Neutrals
Microbiology: SM9223B-Colilert: E. coli (Ambient and Wastewater), **SM9223B-Colilert-18:** Fecal Coliform (Wastewater).

Certification IDs:

PAS-WES2 Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
CT PH-0826, IL 200077, IN C-MA-03, KY KY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195.

PAS-MANS Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
ANAB/DoD L2474, CA 3117, CO MA00030, CT PH-0825, IL 200081, IN C-MA-04, KY KY98046, LA 85084, ME MA00030, MD 350, MA M-MA00030, MI 9110, MN 025-999-495, NV MA00030, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, UT MA00030, VT VT-0015, VA 460194, WA C954.

PAS-MAN1 Mansfield Air Lab Facility – 120 Forbes Blvd. Mansfield, MA 02048
ANAB/DoD L2474, LA 245052, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

PAS-ELON East Longmeadow Facility – 39 Spruce St. East Longmeadow, MA 01028
CT PH-0821, ME MA00100, MI 9100, NC (DENR) 652, NC (DW) 25703, MA M-MA100, NH (Secondary) 2516, NH (Primary) 2557, NJ MA007, NY 10899, PA 68-05812, RI LAO00373, VA 460217, VT-255716, WV DEP 419, WV-DW 9979C, LA 05130, LA-DW LA042, MD-DW 373, OH 87781.

For a complete listing of analytes and methods, please contact your Project Manager.

CHAIN OF CUSTODY

PAGE 1 OF 4

Pace Analytical Services

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 06/23/26

Pace Job #: L2689023

Client Information

Client: VS DOT Volpe Center
Address: 220 Binney Street Cambridge, MA
Phone: 617-494-3053
Fax:
Email: Jacob.Klaybor@dot.gov
☐ These samples have been previously analyzed by Pace

Project Information

Project Name: FROG SWITCH SUPPLEMENTAL
Project Location: PHASE IV / CARLISLE, PA
Project #:
Project Manager: JACOB KLAYBOR
Pace Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program: PA Criteria: DIRECT CONTACT MSC

Other Project Specific Requirements/Comments/Detection Limits:
More samples from this project to come this week, put all in one single report please. Please keep SDG open

Pace Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	As (6010D)	Co (6010D)	Ni (6010D)	Total Solids	Sample Specific Comments	Total # Bottles
39023-01	FROG-SS-209(0.0-2.0)	6/22/26	1224	S	JK	X	X	X			2
-02	FROG-SS-209 (4.5-5.0)		1232	S	JK	X	X	X			
-03	FROG-SS-209 (9.5-10.0)		1236	S	JK	X	X	X			
-04	FROG-SS-209(14.5-15.0)		1238	S	JK	X	X	X			
-05	FROG-SS-210(0.0-2.0)		1258	S	JK	X	X	X			
-06	FROG-SS-210(4.5-5.0)		1302	S	JK	X	X	X			
-07	FROG-SS-210(9.5-10.0)		1307	S	JK	X	X	X			
-08	FROG-SS-210(14.5-15.0)		1310	S	JK	X	X	X			
-09	FROG-SS-211(0.0-2.0)		1348	S	JK	X	X	X			
-10	FROG-SS-211(4.5-5.0)		1352	S	JK	X	X	X			
	Container Type					A	A	P			
	Preservative					A	A	A			

SAMPLE HANDLING
Filtration
☐ Done
☒ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Relinquished By:	Date/Time	Received By:	Date/Time
J. Klaybor	6/23/26 1546		
	6-22-26	Anthony Green JUN 22 2026	6-22-26 1540
Anthony Green AL	6-23 0300	AL	6-23 0130

6123126030 0

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Pace's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 25-FEB-25)

CHAIN OF CUSTODY

PAGE 2 OF 4

Pace Analytical Services

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 06/23/26

Pace Job #: 12639023

Client Information

Client: US DOT Volpe

Address:

Phone:

Fax:

Email:

☐ These samples have been previously analyzed by Pace

Project Information

Project Name: Frog Switch Supplemental Phase I

Project Location:

Project #:

Project Manager:

Pace Quote #:

Turn-Around Time

☐ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

Pace Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	As (6010D)	Co (6010D)	Ni (6010D)	Total Solids	PAHs (8270)	TPH DRO + GRO (8015)	Sample Specific Comments	Total # Bottles
39023-11	FROG-SS-211 (7.5-8.0)	6/22/26	1356	S	JK	X	X		X				2
-12	FROG-SS-211 (10.0-10.5)		1401	S	JK	X	X		X				
-13	FROG-SS-212 (0.0-2.0)		1437	S	JK	X	X		X				
-14	FROG-SS-212 (4.5-5.0)		1440	S	JK	X	X		X				
-15	FROG-SS-212 (5.0-7.0)		1446	S	JK					X	X		3
-16	FROG-SS-212 (9.5-10.0)		1441	S	JK	X	X		X				
-17	FROG-SS-212 (13.5-14.0)		1444	S	JK	X	X		X				
-18	FROG-SS-213 (0.0-2.0)		0901	S	JK	X		X	X				
-19	FROG-SS-213 (4.5-5.0)		0907	S	JK	X		X	X				
-20	FROG-SS-213 (9.5-10.0)		0916	S	JK	X		X	X				

Container Type	A	A	A	P	A	A
Preservative	A	A	A	A	A	A

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ Lab to do

Preservation
☐ Lab to do

(Please specify below)

Relinquished By:	Date/Time	Received By:	Date/Time
J. Klapar	6/22/26 1546	Anthony Green	6-22-26 1546
Anthony Green	6-22-26	AL	JUN 22 2026 2300
M 6-23 0500			6-23 0130

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Pace's Terms and Conditions. See reverse side.

6123126030 0

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CHAIN OF CUSTODY

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Date Rec'd in Lab: 06/23/26

Pace Job #: L263923

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: US DOT Volpe Center

Address:

Phone:

Fax:

Email:

☐ These samples have been previously analyzed by Pace

Project Information

Project Name: FROG Switch Supplemental Phase II

Project Location:

Project #:

Project Manager:

Pace Quote #:

Turn-Around Time

☐ Standard ☐ RUSH (may be confirmed if pre-approved)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

Pace Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS: As (6010)	Co (6010)	Ni (6010)	Total Solids	SAMPLE HANDLING: Filtration ☐ Done ☐ Not needed ☐ Lab to do Preservation ☐ Lab to do (Please specify below)	Sample Specific Comments	TOTAL # BOTTLES
39023-21	FROG-SS-213(HS-15.0)	6/22/26	0918	S	JK	X		X	X			2
-22	FROG-SS-214(0.0-2.0)		0938	S	JK	X			X			
-23	FROG-SS-214(4.0-4.5)		0942	S	JK	X			X			
-24	FROG-SS-214(5.0-5.5)		0946	S	JK	X			X			
-25	FROG-SS-214(9.0-9.5)		0950	S	JK	X			X			
-26	FROG-SS-215(0.0-2.0)		1011	S	JK	X			X			
-27	FROG-SS-215(4.5-5.0)		1019	S	JK	X			X			
-28	FROG-SS-215(9.5-10.0)		1021	S	JK	X			X			
-29	FROG-SS-215(14.5-15.0)		1025	S	JK	X			X			
-30	FROG-SS-216(0.0-2.0)		1050	S	JK	X			X			

Container Type	A	A	A	P
Preservative	A	A	A	A

Relinquished By:	Date/Time	Received By:	Date/Time
J. Klagher	6/22/26 1946		6-22-26 1946
	6-22-26	Anthony Green JUN 22 2026 2330	6-23 0130
Anthony Green AL 6-23 0300		AL	

6/23/26 0300

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Pace's Terms and Conditions. See reverse side.

CHAIN OF CUSTODY

PAGE 4 OF 4

Pace Job #: L1639023

Date Rec'd in Lab: 06/23/26

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: VSDOT Volpe Center
Address:
Phone:
Fax:
Email:
☐ These samples have been previously analyzed by Pace

Project Information

Project Name: Frog Switch Supplemental Phase II
Project Location:
Project #:
Project Manager:
Pace Quote #:

Turn-Around Time

☐ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

Other Project Specific Requirements/Comments/Detection Limits:

Pace Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS: As (6010)	Co (6010)	Ni (6010)	Total Solids	SAMPLE HANDLING: Filtration ☐ Done ☐ Not needed ☐ Lab to do; Preservation ☐ Lab to do (Please specify below)	Sample Specific Comments	TOTAL # BOTTLES
39023-31	FROG-SS-216(4.5-5.0)	6/22/26	1052	SS	JK	X			X			2
-32	FROG-SS-216(6.0-7.0)		1055	S	JK	X			X			2
-33	FROG-SS-216(7.5-8.0)		1057	S	JK	X			X			2
-19	FROG-SS-MS-201		0907	S	JK	X		X	X		MS/MSD associated w/ FROG-SS-213(4.5-5.0)	2
-19	FROG-SS-MSD-201		0907	S	JK	X		X	X			2
-34	FROG-SS-DUP-201		0000	S	JK	X			X			2
-35	FROG-FB-201		1212	Aq	JK	X	X	X			Field Blank PLASTIC GOOD TO GO	1

Container Type	A	A	A	P
Preservative	A	A	A	A

Relinquished By:	Date/Time	Received By:	Date/Time
J. Klauber Anthony Green	6/22/26 1546	Anthony Green AL	6-22-26 1546 JUN 22 2026 2300 6-23 0130

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Pace's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 25-FEB-25)

AL 6-23 0300 ~ 6/23/26 0300

CHAIN OF CUSTODY

PAGE 1 OF 3

Date Rec'd in Lab: 6/24/26

L2639023

Pace
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: V.S. DOT Volpe Center
Address: 220 Binney Street
Cambridge. MA 02142
Phone: 617-494-3053
Fax:
Email: Jacob.Klaybar@dot.gov
☐ These samples have been previously analyzed by Pace

Project Information

Project Name: Frog Switch Supplemental Phase II
Project Location: Carlisle, PA
Project #: —
Project Manager: Jacob Klaybar
Pace Quote #: —

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program: PADEP Criteria: Direct Contact MSC

Other Project Specific Requirements/Comments/Detection Limits:
More samples for this project to come this week, please keep DSG open.

Pace Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	As (6010 D)	Fe (6010 D)	Mn (6010D)	Total Solids	Sample Specific Comments	TOTAL # BOTTLES
39023-~~36~~	FROG-SS-201 (10-2.0)	6/23/26	0917	S	EP	X			X		2
~~39~~ ~~37~~	FROG-SS-201 (4.5-5.0)		0924	S	EP	X			X		2
~~40~~ ~~38~~	FROG-SS-201 (9.5-10.0)		0926	S	EP	X			X		2
~~41~~ 39	FROG-SS-201 (14.5-15.0)		0932	S	EP	X			X		2
~~42~~ 40	FROG-SS-202 (1.0-2.0)		0959	S	EP	X			X		2
~~43~~ 41	FROG-SS-202 (5.0-5.5)		1000	S	EP	X			X		2
~~44~~ 42	FROG-SS-202 (7.5-8.0)		1003	S	EP	X			X		2
~~45~~ 43	FROG-SS-202 (9.0-9.5)		1008	S	EP	X			X		2
~~46~~ 44	FROG-SS-203 (1.5-2.0)		1035	S	EP	X			X		2
~~47~~ 45	FROG-SS-204 (10-2.0)		1115	S	EP	X			X		2
	Container Type					A			P		
	Preservative					A			A		

SAMPLE HANDLING
Filtration
☐ Done
☒ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Relinquished By:	Date/Time	Received By:	Date/Time
J. Klaybar	6/23/26 1555		6-23-26
	6-23-26		6/23/1945
Anthony Green AL	6-23	Anthony Green AL	JUN 23 2026 2200
	6-24 0200		6-24 0330

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Pace's Terms and Conditions. See reverse side.

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Serial_No:07172613:51

CHAIN OF CUSTODY

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Date Rec'd in Lab: 6/24/26

Pace Job #: L2639023

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: U.S. DOT Volpe

Address:

Phone:

Fax:

Email:

☐ These samples have been previously analyzed by Pace

Project Information

Project Name: Frog Switch Supplemental Phase II

Project Location:

Project #:

Project Manager:

Pace Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

Pace Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	As (6010D)	Fe (6010D)	Mn (6010D)	Total Solids	Sample Specific Comments	TOTAL # BOTTLES
39023-46	FROG-SS-204(3.5-4.0)	6/23/26	1118	S	EP	X			X		2
47 ~~49~~	FROG-SS-205(1.0-2.0)		1315	S	EP	X	X	X	X		2
48 ~~50~~	FROG-SS-205(3.5-4.0)		1318	S	EP	X	X	X	X		2
49 ~~51~~	FROG-SS-206(0.5-2.0)		1346	S	EP	X	X	X	X		2
50 ~~52~~	FROG-SS-206(4.5-5.0)		1358	S	EP	X	X	X	X		2
51 ~~53~~	FROG-SS-206(9.5-10.0)		1402	S	EP	X	X	X	X		2
52 ~~54~~	FROG-SS-206(10.5-11.0)		1407	S	EP	X	X	X	X		2
53 ~~55~~	FROG-SS-207(0.5-2.0)		1442	S	EP	X	X	X	X		2
54 ~~56~~	FROG-SS-207(4.5-5.0)		1448	S	EP	X	X	X	X		2
55 ~~57~~	FROG-SS-207(5.5-6.0)		1452	S	EP	X	X	X	X		2
	Container Type					A	A	A	P		
	Preservative					A	A	A	A		

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Relinquished By:	Date/Time	Received By:	Date/Time
J. Klayton	6/23/26		6-23-26
	6-23-26		6'23 1940
	6'23	Anthony Green	JUN 23 2026
Anthony Green	AR 6-24 0200	AR 6-24 0330	

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Pace's Terms and Conditions. See reverse side.

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Serial_No:07172613:51

CHAIN OF CUSTODY

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Date Rec'd in Lab: 6/24/26

Pace Job #: L2639023

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: U.S. DoT Volpe Center

Address:

Phone:

Fax:

Email:

☐ These samples have been previously analyzed by Pace

Project Information

Project Name: Frog Switch P Supplemental Phase II

Project Location:

Project #:

Project Manager:

Pace Quote #:

Turn-Around Time

☐ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

Pace Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS: As (6010D)	Fe (6010D)	Mn (6010D)	Total Solids	SAMPLE HANDLING: Filtration ☐ Done ☐ Not needed ☐ Lab to do; Preservation ☐ Lab to do (Please specify below)	Sample Specific Comments	TOTAL # BOTTLES
39023-56	FROG-SS-207(6.5-7.0)	6/23/26	1457	S	EP	X	X	X	X			2
36	FROG-SS-MS-202		0926	S	EP	X			X		MS/MSD associated w/	2
36	FROG-SS-MSD-202		0926	S	EP	X			X		Sample FROG-SS-201 (9510)	2
57	FROG-SS-DUP-202		0000	S	EP	X	X	X	X			2
58	FROG-FB-202		0942	Aq	EP	X	X	X	X		Field Blank (Plastic HNO3 bot.)	1

Container Type	A	A	A	P*
Preservative	A	A	A	A*

Relinquished By:	Date/Time	Received By:	Date/Time
J. Klayko	6/23/26 1555		
	6-23-26		6-23-26
	6/23	Anthony Green JUN	6-23 1947
Anthony Green AL	6-24 0800	AL	6-24 0330

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Pace's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 25-FEB-25)

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CHAIN OF CUSTODY

PAGE 1 OF 3

ALPHA
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 06/25/26

ALPHA Job #: L2639023

Client Information

Client: V.S. DOT Volpe Center
Address: 220 Binney Street
Cambridge, MA
Phone: 617-494-3053
Fax: —
Email: Jacob.Klaybor@dot.gov
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Frog Switch Supplemental Phase II
Project Location: Carlisle, PA
Project #: —
Project Manager: Jacob Klaybor
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program: PADEP Criteria: Direct Contact MSCs

Other Project Specific Requirements/Comments/Detection Limits:
More samples for this project coming this week, please keep DSG open

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	As (6010)	Fe (6010)	Mn (6010)	Total Solids	Sample Specific Comments	Total # Bottles
39023-59	FROG-SS-208(0.0-2.0)	6/24/26	0826	S	EP	X	X	X	X		2
-60	FROG-SS-208(4.5-5.0)		0829	S	EP	X	X	X	X		2
-61	FROG-SS-208(9.5-10.0)		0830	S	EP	X	X	X	X		2
-62	FROG-SS-208(12.0-12.5)		0831	S	EP	X	X	X	X		2
-63	FROG-SS-301(0.0-2.0)		0929	S	EP	X			X		2
-64	FROG-SS-301(6.0-8.0)		0930	S	EP	X			X	MS/MSD collected	2
-65	FROG-SS-302(0.0-2.0)		0951	S	EP	X			X		2
-66	FROG-SS-302(6.5-7.0)		0955	S	EP	X			X		2
-67	FROG-SS-303(0.0-2.0)		1027	S	EP	X			X		2
-68	FROG-SS-303(4.5-5.0)		1033	S	EP	X			X		2

SAMPLE HANDLING
Filtration
☐ Done
☒ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Container Type	A	A	A	P
Preservative	A	A	A	A

Relinquished By:	Date/Time	Received By:	Date/Time
J. Klaybor	6/24/26 1544	Anthony Green	6-24-26
Anthony Green	6-24-26	AL	JUN 24 2026 2310
AL 6-25 0400			6-25 0200

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

06/25/26 10400

CHAIN OF CUSTODY

PAGE 2 OF 3

Date Rec'd in Lab: 06/25/26

ALPHA Job #: L2639023

ALPHA LABORATORIES
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: U.S. DOT Volpe Center
Address:
Phone:
Fax:
Email:
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Frog Switch Supplemental Phase II
Project Location:
Project #:
Project Manager:
ALPHA Quote #:

Turn-Around Time

☐ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	As (6010)	Total Solids	Sample Specific Comments	TOTAL # BOTTLES
39023-69	FROG-SS-304(0.0-2.0)	6/24/26	1242	S	EP	X	X		2
70	FROG-SS-304(14.5-15.0)	6/24/26	1247	S	EP	X	X		2
71	FROG-SS-305(0.0-2.0)		1307	S	EP	X	X		2
72	FROG-SS-305(9.0-7.5)		1310	S	EP	X	X		2
73	FROG-SS-306(1.0-2.0)		1329	S	EP	X	X		2
74	FROG-SS-306(3.0-3.5)		1331	S	EP	X	X		2
75	FROG-SS-307(0.0-2.0)		1400	S	EP	X	X		2
76	FROG-SS-307(8.0-8.5)		1404	S	EP	X	X		2
77	FROG-SS-308(0.0-2.0)		1442	S	EP	X	X		2
78	FROG-SS-308(6.5-7.0)		1443	S	EP	X	X		2
	Container Type					A	P		
	Preservative					A	A		

Relinquished By:	Date/Time	Received By:	Date/Time
J. Khyber	6/24/26 1514		6-24-26
	6-24-26	Anthony Green JUN 24 2026	6-25 0200
Anthony Green AL 6-25 0400		AL	

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

06125126 10100

CHAIN OF CUSTODY

PAGE 3 OF 3

Date Rec'd in Lab: 06/25/26

ALPHA Job #: L2639023

ALPHA TIDAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: V.S DOT Volpe Center
Address:
Phone:
Fax:
Email:
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Frog Switch Supplemental Phase II
Project Location:
Project #:
Project Manager:
ALPHA Quote #:

Turn-Around Time

☐ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	As (6010)	Total Solids	Sample Specific Comments	TOTAL # BOTTLES
39023-79	FROG-SS-309 (0.0-2.0)	6/24/26	1500	S	EP	X	X		2
-80	FROG-SS-309 (4.0-4.5)	"	1503	S	EP	X	X		2
-81	FROG-SS-310 (0.0-2.0)		1520	S	EP	X	X		2
-82	FROG-SS-310 (4.5-5.0)		1521	S	EP	X	X		2
-83	FROG-FB-301		0943	AQ	EP	X			1
-84	FROG-SS-MS-301		0930	S	EP	X	X	ASSOCIATED W/ FROG-SS-301 (9.0-9.5)	2
-85	FROG-SS-MSD-301		0930	S	EP	X	X		2
-86	FROG-SS-DUP-301	↓	0000	S	EP	X	X		1

Container Type	A	P
Preservative	A	A

Relinquished By:	Date/Time	Received By:	Date/Time
J. Hayhoe	6/24/26 1544		6-24-26
	6-24-26	Anthony Green JUN 24 2026 2310	
Anthony Green		AL	6-25 0200

AL 6-25 0400

06125126104 00

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

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CHAIN OF CUSTODY

PAGE 1 OF 3

Pace Analytical Services

WESTBORO, MA TEL: 508-898-8220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 6/26/26

Pace Job #: L2639023

Client Information

Client: US DOT Volpe Center
Address: 220 Binney Street
Cambridge, MA 02142
Phone: 617-494-3053
Fax: —
Email: Jacob.Klaybor@dot.gov
☐ These samples have been previously analyzed by Pace

Project Information

Project Name: Frog Switch Supplemental
Project Location: Gerlach, PA Phase II
Project #: —
Project Manager: Jacob Klaybor
Pace Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program: PADEP Criteria: Direct Contact MSCs

Other Project Specific Requirements/Comments/Detection Limits:
More samples from this project coming this week, please Keep SDG open.

Pace Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	As (6010)	Ni (6010)	PAHs (8270)	Total Solids	Sample Specific Comments	TOTAL # BOTTLES
39023-85	FROG-SS-218 (0.0-2.0)	6/25/26	1340	S	JK	X		X	X		3
-86	FROG-SS-218 (4.0-5.0)		1347	S	JK	X		X	X		3
-87	FROG-SS-218 (9.0-10.0)		1351	S	JK	X		X	X		3
-88	FROG-SS-218 (11.0-12.0)		1355	S	JK	X		X	X		3
-89	FROG-SS-220 (0.0-2.0)		1007	S	JK	X	X	X	X		3
-90	FROG-SS-220 (4.0-5.0)		1010	S	JK	X	X	X	X		3
-91	FROG-SS-220 (5.5-6.0)		1015	S	JK	X	X	X	X		3
-92	FROG-SS-221 (0.0-2.0)		1048	S	JK	X		X	X		3
-93	FROG-SS-221 (4.0-5.0)		1050	S	JK	X		X	X	MS/MSD collected	3
-94	FROG-SS-221 (9.0-10.0)		1130	S	JK	X		X	X		3

Container Type	A	A	A	P
Preservative	A	A	A	A

SAMPLE HANDLING
Filtration
☐ Done
☒ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Relinquished By:	Date/Time	Received By	Date/Time
J. Klaybor	6/25/26 1558		
	6-25-26 6:25	Anthony Green	6-25-26 1950
Anthony Green	AL 6-26 0320	AL	6-26 0410

JUN 25 2026 2310

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Pace's Terms and Conditions. See reverse side.

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CHAIN OF CUSTODY

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Pace ANALYTICAL SERVICES

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 6/26/26

Pace Job #: L2639023

Client Information

Client: U.S. DOT Volpe Center
Address:
Phone:
Fax:
Email:
☐ These samples have been previously analyzed by Pace

Project Information

Project Name: Frog Switch Supplemental
Project Location: Phase II
Project #:
Project Manager:
Pace Quote #:

Turn-Around Time

☐ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: As (6010) | Ni (6010) | PAHs (8270) | Total Solids

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Pace Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	As		Ni	PAHs	Total Solids	Sample Specific Comments	TOTAL # BOTTLES
39023-95	FROG-SS-221(14.0-15.0)	6/25/26	1105	S	JK	X		X	X			3
-96	FROG-SS-222(0.0-2.0)		1128	S	JK	X		X	X			3
-97	FROG-SS-222(4.0-4.5)		1134	S	JK	X		X	X			3
-98	FROG-SS-222(9.0-10.0)		1138	S	JK	X		X	X			3
-99	FROG-SS-222(10.5-11.5)		1141	S	JK	X		X	X			3
-100	FROG-SS-223(0.0-2.0)		1258	S	JK	X		X	X			3
-101	FROG-SS-223(4.0-5.0)		1301	S	JK	X		X	X			3
-102	FROG-SS-223(9.0-10.0)		1308	S	JK	X		X	X			3
-103	FROG-SS-223(10.5-11.5)		1311	S	JK	X		X	X			3
-104	FROG-SS-DUP-803		0000	S	JK	X	X	X	X			3

Container Type	A	A	A	P
Preservative	A	A	A	A

Relinquished By:	Date/Time	Received By:	Date/Time
Jo Klaybor	6/25/26 1558		6-25-26 1555
	6-25-26		6-25 1950
Anthony Green	6-25	Anthony Green JUN 25 2026 2310	

Anthony Green AL 6-26 0220 AL 6-26 0410 0612612610410

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Pace's Terms and Conditions. See reverse side.

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CHAIN OF CUSTODY

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Pace Analytical Services

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 6/26/26

Pace Job #: L2639023

Client Information

Client: U.S. DOT Volpe Center

Address:

Phone:

Fax:

Email:

☐ These samples have been previously analyzed by Pace

Project Information

Project Name: Frog Switch Supplemental

Project Location: Phase II

Project #:

Project Manager:

Pace Quote #:

Turn-Around Time

☐ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

Pace Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	As C6010	Ni C6010	PAHs (8270)	Total Solids	Sample Specific Comments	Total # Bottles
39023 ~~-105~~ -104	FROG-SS-MS-203	6/25/26	1050	S	JK	X		X	X	MS/MSD associated w/	3
~~-93~~ -104 ~~-106~~	FROG-SS-MSD-203	"	1050	S	JK	X		X	X	FROG-SS-221(4.0-5.0)	3
~~105~~ ~~-107~~ ~~-108~~	FROG-FB-203	"	1020	Aq	JK	X	X	X		Field Blank, Hits present	3
~~-93~~ 6/25											

FTC 6/24/26

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Container Type	A	A	A	P														
Preservative	A	A	A	A														

Relinquished By:	Date/Time	Received By:	Date/Time
Jo Klaybor	6/25/26 1558		
	6-25-26		6-25-26 1538
	6:25	Anthony Green	JUN 25 2026 1930
Anthony Green	AL 6-26 0220	AL 6-26 0410	

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Pace's Terms and Conditions. See reverse side.

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CHAIN OF CUSTODY

PAGE 1 OF 2

Pace Analytical Services

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 6/27/26

Pace Job #: L2639023

Client Information

Client: U.S. DOT Volpe Center
Address: 220 Binney Street Cambridge, MA 02142
Phone: 617-494-3053
Fax: –
Email: Jacob.Klayber@dot.gov
☐ These samples have been previously analyzed by Pace

Project Information

Project Name: Frog Switch Supplemental Phase II
Project Location: Carlisle, PA
Project #: –
Project Manager: Jacob Klayber
Pace Quote #: 00213759

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program: PADEP Criteria: Direct Contact MSCs

Other Project Specific Requirements/Comments/Detection Limits:
This is the final set of samples for this project. Please close the SDG. Include results in one report. Include MDLs.

Pace Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	As (6010)	Ni (6010)	PAHs (8270)	Total Solids	Sample Specific Comments	TOTAL # BOTTLES
39023 -106	FROG-SS-217(0.0-2.0)	6/26/26	0828	S	JK	X	X	X	X		3
-107	FROG-SS-217(4.0-5.0)		0833	S	JK	X	X	X	X		3
-108	FROG-SS-217(9.0-10.0)		0839	S	JK	X	X	X	X	MS/MSD Collected	3
-109	FROG-SS-217(11.0-12.0)		0844	S	JK	X	X	X	X		3
-110	FROG-SS-219(0.0-2.0)		0914	S	JK	X		X	X		3
-111	FROG-SS-219(4.0-5.0)		0920	S	JK	X		X	X		3
-112	FROG-SS-219(5.5-6.5)		0926	S	JK	X		X	X		3
-113	FROG-SS-224(0.5-2.0)		1004	S	JK	X			X		2
-114	FROG-SS-224(4.5-5.0)		1007	S	JK	X			X		2
-115	FROG-SS-224(9.5-10.0)		1011	S	JK	X			X		2

SAMPLE HANDLING
Filtration
☐ Done
☒ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Container Type	A	A	A	P
Preservative	A	A	A	A

Relinquished By:	Date/Time	Received By:	Date/Time
J. Klayber	6/26/26 1600		6/26/26 1400
	6/26/26		2215
Anthony Green	6/26	Anthony Green	JUN 26 2026 2330

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Pace's Terms and Conditions. See reverse side.

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AL 6-27 0200 AL 6-27 0330

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CHAIN OF CUSTODY

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Pace Analytical Services

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 6/27/26

Pace Job #: L2639023

Client Information

Client: U.S. DOT Volpe Center
Address:
Phone:
Fax:
Email:
☐ These samples have been previously analyzed by Pace

Project Information

Project Name: Frog Switch Supplemental Phase II
Project Location:
Project #:
Project Manager:
Pace Quote #:

Turn-Around Time

☐ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☑ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

Pace Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	As (6010)	Ni (6010)	PAHs (8270)	Total Solids	SAMPLE HANDLING	TOTAL # BOTTLES
39023 -116	FROG-SS-224 (14.5-15.0)	6/26/26	1014	S	JK	X			X		2
-117	FROG-SS-225 (0.5-2.0)		1048	S	JK	X			X		2
-118	FROG-SS-225 (4.5-5.0)		1052	S	JK	X			X		2
-119	FROG-SS-225 (9.5-10.0)		1056	S	JK	X			X		2
-120	FROG-SS-225 (14.5-15.0)		1100	S	JK	X			X		2
-121	FROG-SS-DUP-204		0000	S	JK	X		X	X		3
-108	FROG-SS-MS-204		0835	S	JK	X	X	X	X	MS/MSD associated w/ FROG-SS-217 (9.0-10.0)	3
-108	FROG-SS-MSD-204		0839	S	JK	X	X	X	X		3
-122	FROG-FB-204		0900	Aq	JK	X	X	X	X	Field Blank, HNO3 preserve for metals	3

Container Type	A	A	A	P
Preservative	A	A	A	A

Relinquished By:	Date/Time	Received By:	Date/Time
Jo Klaver	6/26/26 1600	Noni Pace	6/26/26 16:00
Noni Pace	6/26/26 2345	Anthony Green	JUN 26 2026
Anthony Green	At 6-27 0200	At 6-27 0330	

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Pace's Terms and Conditions. See reverse side.

06/27/26/0330

FORM NO: 01-01 (rev. 25-FEB-25)

Sample Delivery Group Summary

Pace Job Number : L2639023

Account Name : USDOT/Volpe Center
Project Number :
Project Name : FROG SWITCH PHASE II

Received : 22-JUN-2026
Reviewer : Sara Salome

Delivery Information

Samples Delivered By : Pace Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Absent/	Ice	2.3	
B	Absent/	Ice	3.7	
C	Absent/	Ice	3.6	
D	Absent/	Ice	2.9	
E	Absent/	Ice	3.7	
F	Absent/	Ice	3.4	

Condition Information

1) All samples on COC received?	**YES**
2) Extra samples received?	**NO**
3) Are there any sample container discrepancies?	**NO**
4) Are there any discrepancies between COC & sample labels?	**NO**
5) Are samples in appropriate containers for requested analysis?	**YES**
6) Are samples properly preserved for requested analysis?	**YES**
7) Are samples within holding time for requested analysis?	**YES**
8) All sampling equipment returned?	**NA**

Volatile Organics/VPH

1) Reagent Water Vials Frozen by Client?	**NO**