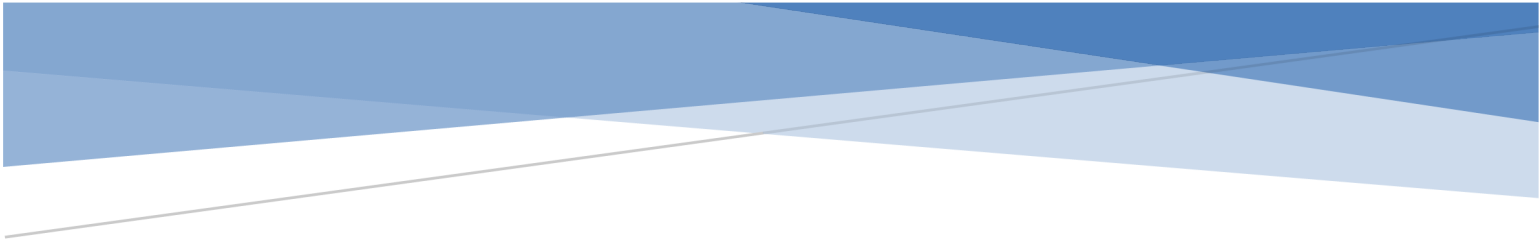


**DOCKETED**

|                         |                                                        |
|-------------------------|--------------------------------------------------------|
| <b>Docket Number:</b>   | 25-SPPE-02                                             |
| <b>Project Title:</b>   | NorthTown Backup Generating Facility (NTBGF)           |
| <b>TN #:</b>            | 270538                                                 |
| <b>Document Title:</b>  | GIC San Jose Responses to CEC Data Request Set 2- NBGF |
| <b>Description:</b>     | N/A                                                    |
| <b>Filer:</b>           | Scott Galati                                           |
| <b>Organization:</b>    | DayZenLLC                                              |
| <b>Submitter Role:</b>  | Applicant Representative                               |
| <b>Submission Date:</b> | 6/11/2026 8:36:23 AM                                   |
| <b>Docketed Date:</b>   | 6/11/2026                                              |



# RESPONSE TO CEC STAFF DATA REQUEST SET W

NorthTown Backup Generating Facility (25-SPPE-02)

SUBMITTED TO: CALIFORNIA ENERGY COMMISSION

SUBMITTED BY: GIC San Jose LLC

**June 2026**





## **INTRODUCTION**

Attached are GIC San Jose LLC (GIC San Jose) responses to California Energy Commission (CEC) Staff Data Request Set No. 2 for the NorthTown Backup Generating Facility (NTGBF) Application for Small Power Plant Exemption (SPPE) (25-SPPE-02).

The Data Responses are grouped by individual discipline or topic area. Within each discipline area, the responses are presented in the same order as Staff presented them and are keyed to the Data Request Numbers. Additional tables, figures, or documents submitted in response to a data request (e.g., supporting data, stand-alone documents such as plans, folding graphics, etc.) are found in Attachments at the end of the document and labeled with the Data Request Number for ease of reference.

For context, the text of the Background and Data Request precede each Data Response.



## **HAZARDOUS MATERIALS**

### **BACKGROUND: Hazardous Materials Handling During Construction**

*California Code of Regulations (CCR), title 20, Division 2, Chapter 5, Appendix B (g) (10) (A) requires a list of all materials used or stored on-site which are hazardous or acutely hazardous, as defined in title 22, CCR, § 66261.20 et seq., and a discussion of the toxicity of each material. Additionally, CCR, title 20, Division 2, Chapter 5, Appendix B (g) (10) (C) requires a discussion of the storage and handling system for each hazardous material used or stored at the site.*

*Section 3.2.9, Waste Management, of the SPPE Application (TN 264500) states that “The NTBGF will not create any waste materials other than minor amounts of solid waste created during construction and maintenance activities.” However, the SPPE Application does not provide a list of hazardous materials that are expected to be used on site during construction and maintenance, nor does it discuss systems and procedures related to the delivery, storage, use and spill containment of those hazardous materials.*

### **DATA REQUEST**

**DR HAZ-1** Please provide a list of all materials that would be used and stored on-site during project construction which are hazardous or acutely hazardous as defined in title 22, CCR, § 66261.20 et seq., and a discussion of the toxicity of each material. Please also provide a discussion of the storage and handling system for each hazardous material that would be used or stored at the site during project construction and maintenance activities. Please include procedures for delivery, storage, spill/leak prevention, containment, cleanup, and disposal of those materials.

### **RESPONSE TO DATA REQUEST HAZ-1**

GIC San Jose objects to Staff’s request for a detailed list of all hazardous materials and a discussion of toxicity. Staff’s sole justification for this request is the strict application of Appendix B requirements which were crafted and designed for an AFC, where CEC assumes the district for enforcing hazardous materials laws, ordinance, regulations, and standards (LORS). The detailed information is not required for an SPPE Application where the CEC will not be the jurisdiction that enforces hazardous materials LORS. The CEC analysis is limited to that necessary to evaluate potential environmental impacts pursuant to CEQA. Staff have not requested, needed, nor included the detailed and toxicity analysis identified in this data request for the CEQA analyses completed for prior SPPE Applications. See the most recent Initial Study/Mitigated Negative Declaration (IS/MND) published for the AVAIO Backup Generating Facility, where the analysis did not identify nor rely on the information requested in this data request.

Notwithstanding this objection, Staff is correct in requesting additional information on the types of hazardous materials present during construction activity and a description of the procedures for delivery, storage, spill/leak prevention, containment, cleanup, and disposal of those materials and therefore, GIC San Jose provides the following.

During the construction phase of the project, the only hazardous materials used would be paints, cleaners, solvents, gasoline, motor oil, welding gases, and lubricants. When not in use, any hazardous material would be stored in designated construction staging areas in compliance with local, state, and federal requirements. Personnel would be required to follow instructions on health and safety precautions and procedures to follow in the event of a release of hazardous materials. All equipment and materials storage would be routinely inspected for leaks. Records would be maintained for documenting compliance with the storage and handling of hazardous materials.

In addition, no fuel will be stored on-site for vehicle refueling. All refueling of construction vehicles will be off-site. Minor repairs of vehicles or equipment may occur on-site. For major repairs, the equipment will be transported off-site to a repair facility.

Any impact resulting from spills or other accidental releases of these materials would be limited to the site due to the small quantities involved and their infrequent use, hence reduced chances of release. Temporary containment berms would also be used to help contain any spills during the construction of the project.

#### ***BACKGROUND: Refueling Spill/Leak Containment***

***CCR, title 20, Division 2, Chapter 5, Appendix B (g) (10) (C) requires a discussion of the storage and handling system for each hazardous material used or stored at the site. Section 3.2.10, Hazardous Materials Management, of the SPPE Application (TN 264500) describes the loading and/or unloading systems and procedures for diesel fuel including "... a spill catch sump is located at the low spots within each fill port for the fuel tank." However, the SPPE Application lacks details of the diesel fuel spill containment systems. The SPPE Application goes on to describe that "[e]ach enclosure will have an approximately 100-gallon DEF (Diesel Exhaust Fluid) tank. The tank can be filled in place from drums, totes or bulk tanker truck similar to the process identified for the diesels refuel process." However, the SPPE Application lacks details in the discussion of delivery procedures and does not discuss systems and procedures related to the storage, handling and spill/leak prevention and containment of DEF.***

## **DATA REQUESTS**

**DR HAZ-2** Please provide a description and diagrams of the “spill catch sump located at the low spots within each fill port for the fuel tank”, including the volume of fuel these basins can contain.

### **RESPONSE TO DATA REQUEST HAZ-2**

Each generator is equipped with a tightly sealed main tank fill box utilizing overflow prevention valves integral to the generator assembly. Filling of the tanks will not be left unattended. The internal tanks within the generator assemblies are equipped with overflow prevention valves and catch basins sized for expected fuel capacity. Generators are on a continuous concrete platform in which minor spills related to filling can be contained and cleaned.

**DR HAZ-3** Please provide a description of the procedures for cleaning up any spill/overflow within the spill catch sumps.

### **RESPONSE TO DATA REQUEST HAZ-3**

See Response to Data Request HAZ-2. Any spills or overflow from filling the tanks would be addressed by the vendor company that supplies the fuel and fills the tanks. In addition to the vendor’s actions and responsibilities, the facility would have spill kits readily available and worker training would be conducted as described pursuant to the Spill Prevention, Control and Countermeasure (SPCC) Plan.

**DR HAZ-4** Please provide a description of the procedures in the event that fuel leaks during project operation.

### **RESPONSE TO DATA REQUEST HAZ-4**

In accordance with 40 CFR Part 112, the facility will have a site-specific SPCC Plan that will outline the procedure that will be followed in the event of a hazardous materials spill (i.e., **fuel, coolant, oil**). The SPCC Plan will require all employees working at the site to conduct monthly SPCC inspections to visually inspect oil-filled equipment for any evidence of leaks or spills. Initial response to a spill will be to prevent discharge offsite that would include covering any storm drains nearby or creating berms/ barriers and reporting internally and/ or externally as required. The SPCC Plan will include a map of the facility that identifies all oil-filled equipment, storm drains, stormwater flow, and spill kits needed to respond to an accidental spill or release of oil. It includes the required training for employees, discharge prevention measures, and oil contingency plan. SPCC plans are updated within 30 days of a change in hazardous materials inventory or

emergency contact information to ensure it is updated accordingly to avoid any errors to response procedures.

**DR HAZ-5** Please provide an estimate of how often the DEF tanks would need to be refilled during operation of the generators as well as the total volume of DEF to be stored on site.

#### **RESPONSE TO DATA REQUEST HAZ-5**

The total estimated DEF to be stored on-site is 100 gallons per tank multiplied by 42 generators or approximately 4,200 gallons. It should be noted that DEF is not a hazardous material. GIC San Jose estimates that DEF tanks would need to be refilled approximately three times per year.

**DR HAZ-6** Please provide a discussion of the safety measures (including secondary containment) that would be undertaken to prevent spills or leaks during the filling of the DEF tanks during commissioning and operation of the project.

#### **RESPONSE TO DATA REQUEST HAZ-6**

DEF spills/ leaks during commissioning and operations are contained in a box at the point of connection. For leaks or spills that are large and may cause an overflow from the both there will be spill kits available on site to help absorb the liquid. GIC San Jose will employ the same procedure for immediate response and clean up as there is for fuel leaks.

#### ***BACKGROUND: Phase I ESA, Previous Reports and Other Provided Documentation***

***The applicant included a Phase I Environmental Site Assessment (ESA) dated September 17, 2024, prepared by Partner Engineering and Science, Inc. (Partner) (TN 264513) as part of the SPPE Application. Section 5.2.6, Previous Reports and Other Provided Documentation of the Phase I ESA (Appendix J, TN 264513) includes a list of documents provided to Partner for review during the course of Phase I ESA preparation, and summarizes the scope of work, sampling, results and conclusions of some of those documents.***

#### ***DATA REQUEST***

**DR HAZ-7** Please provide a copy of the following documents:

- Phase I Environmental Site Assessment, Philips Lumileds, 350 and 370 West Trimble Road, San Jose, California, URS Corporation (URS) (October 28, 2014)

- Phase II Environmental Site Investigation, Philips Lumileds, 350 and 370 West Trimble Road, San Jose, California, URS (December 2, 2014)
- Soil Management Plan, Philips Lumileds, 350 and 370 West Trimble Road, San Jose, California, Environmental Program Management, LLC (EPM) (March 2018)

## **RESPONSE TO DATA REQUEST HAZ-7**

This Data Request asks for reports that are dated. GIC San Jose LLC performed a Phase II Site Assessment (September 2025 Phase II) as part of its acquisition of the project from LBA RVI-Company I, LP. Instead of providing the dated documents requested above, we believe the September 2025 Phase II would be more helpful to Staff. Please See Attachment DR HAZ-7.

### ***BACKGROUND: Phase I ESA, Existing Underground Storage Tanks (USTs)***

***Section 2.2 Current Property Use of the Phase I ESA (Appendix J, TN 264513) states that “[o]ne 12,000-gallon double-walled diesel UST is located to the southwest of Service Building 89 along with two additional USTs that have remained empty since installation.” Additionally, Section 5.2.6 states that “[t]he UST area contained two USTs that were not and reportedly have never been used. Based on the 1980s installation, these USTs would not meet current requirements and could not be used.” The SPPE Application (TN 264500) and Phase I ESA do not include any additional descriptions or documentation substantiating the reported history of the “two additional USTs” as referenced in the Phase I ESA.***

### **DATA REQUESTS**

**DR HAZ-8** Please provide documentation demonstrating that the “two additional USTs” were never used and have remained empty since installation.

## **RESPONSE TO DATA REQUEST HAZ-8**

See Attachment HAZ DR-8.

**DR HAZ-9** Please describe, and/or illustrate with a figure, the location, and features (depth, dimensions, piping, etc.) of all underground storage tanks, including the “two additional USTs”, located within and/or immediately adjacent to the proposed NorthTown Data Center Project improvements. Include a description of how the location of the USTs relates to the proposed completed site improvements and associated construction activities (grading, excavations, staging, laydown and parking areas, materials storage

areas, etc.). Include the location and depth of any associated piping or other infrastructure.

#### **RESPONSE TO DATA REQUEST HAZ-9**

See Attachment HAZ DR-8 for the closure letter requiring no further action on the site.

#### ***BACKGROUND: Phase I ESA, Existing Monitoring Wells***

***Section 5.2.6 Previous Reports and Other Provided Documentation of the Phase I ESA (Appendix J, TN 264513) discusses that a "...release of diesel fuel occurred due to damaged piping associated with the 12,000-gallon underground storage tank (UST) located outside the southwest corner of Service Building 89." The Phase I ESA goes on to describe that "[t]he investigation included the collection of soil samples from the piping trench during piping repair and collection of soil samples from five soil borings followed by installation of groundwater monitoring wells in the soil borings." The Phase I ESA states that "[m]onitoring wells are no longer present at the subject property."***

***The SPPE Application (TN 264500) does not include a discussion or diagrams of the extraction and/or monitoring well locations, nor does it include a discussion of the destruction of the wells.***

#### **DATA REQUESTS**

**DR HAZ-10** Please provide documentation showing the locations of all extraction and/or monitoring wells relative to the proposed project.

#### **RESPONSE TO DATA REQUEST HAZ-10**

See Attachment HAZ DR-8 for the closure letter and Attachments showing that all wells were properly decommissioned.

**DR HAZ-11** Please provide documentation showing that all extraction and/or monitoring wells were destroyed per applicable local standards, including the Santa Clara Valley Water District Ordinance 90-1 and the minimum standards as presented in the California Department of Water Resources California Well Standards Bulletin 74.

#### **RESPONSE TO DATA REQUEST HAZ-11**

See Attachment HAZ DR-8.

**BACKGROUND: Federal Aviation Regulations Part 77**

**Section 4.9.2.1 (e), Potential Impacts, of the SPPE Application (TN 264500) states the following:**

***“As described in Section 4.9.1.2 Existing Conditions, any structure exceeding 40 feet in height at the Project Site would require submittal to the Federal Aviation Administration (FAA) to determine the potential for the Project to create an aviation hazard. Additionally, as the proposed Project would have a maximum height of 81.4 feet at the top of the rooftop mechanical equipment, notification to the FAA is required to determine the potential for the Project to create an aviation hazard. The Project Applicant has engaged a consultant to prepare a thermal plume analysis to assess the potential effects of the thermal plumes from the backup generating facilities on airport operations. The analysis is underway and will be submitted under separate cover. The Project Applicant has also filed FAA Forms 7460 with the FAA to determine the potential for the Project to create an aviation hazard.”***

**DATA REQUEST**

**DR HAZ-12** Please provide a copy of the FAA Form 7460 and the Preliminary Findings report, Favorable Determination report or Determination of Hazard report once received by applicant.

**RESPONSE TO DATA REQUEST HAZ-12**

The FAA Determinations of No Hazards are included in Attachment DR HAZ-12.

# **ATTACHMENT DR HAZ-7**

2025 Phase II ESA



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# PHASE II ENVIRONMENTAL SITE ASSESSMENT

## Northtown Data Campus

### 350 and 370 West Trimble Road

### San Jose, California

*Prepared For:*

**GIC San Jose LLC**  
**3333 Michelson Drive, Suite 1050**  
**Irvine, California 92612**

*Prepared By:*

**Langan CA, Inc.**  
**1 Almaden Boulevard, Suite 590**  
**San Jose, California**



**Dulce M Rodriguez Rivera**  
**Senior Staff Engineer, EIT**



**Nelson Pi, PE**  
**Senior Project Engineer**



**Robert S. (Rory) Johnston, PE, GE**  
**Managing Principal**

**25 September 2025**  
**770651908**

# **LANGAN**

25 September 2025

Matthew McGuire  
VP, Acquisitions and Due Diligence and Construction  
GIC San Jose LLC  
3333 Michelson Drive, Suite 1050  
Irvine, California 82612

**SUBJECT: Phase II Environmental Site Assessment  
Northtown Campus  
350 and 370 West Trimble Road  
San Jose, California  
Langan Project No. 770651908**

Dear Matthew McGuire,

On behalf of GIC San Jose LLC (Client), Langan CA, Inc. (Langan) has prepared this Phase II Environmental Site Assessment (ESA) for the property located at 350 and 370 West Trimble Road in San Jose, California. Langan appreciates the opportunity to assist you with this project. If you have any questions or need any information clarified, please call Robert S. (Rory) Johnston at (908) 202-1407.

Sincerely yours,  
**Langan CA, Inc.**



Dulce M Rodriguez Rivera, EIT  
Senior Staff Engineer



Nelson Pi, PE  
Senior Project Engineer



Robert S. (Rory) Johnston, PE, GE  
Managing Principal



770651908.02 Phase II ESA\_350 W Trimble\_Northtown Data Campus

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**PHASE II ENVIRONMENTAL SITE ASSESSMENT**  
**Northtown Campus**  
**350 and 370 West Trimble Road**  
**San Jose, California**

## **1.0 INTRODUCTION**

This Phase II Environmental Site Assessment (ESA) was prepared by Langan CA, Inc. (Langan) on behalf of GIC San Jose LLC ("Client") for the proposed development project located at 350 and 370 West Trimble Road in San Jose, California (the "site," Figure 1). The site is identified by Santa Clara County Assessor Parcel Numbers 101-02-18 and 101-02-21. Currently, the 46.79-acre site is improved with five one- to two-story buildings constructed between 1978 and 1982 (Figure 2). The five buildings at the site are identified as Buildings 90 and 91, Service Building 89, Service Building 91, and the Link Building.

The site includes basement areas, associated asphalt-paved parking lots, landscaped areas, and recreational facilities. The existing buildings consist of manufacturing facilities, chemical storage areas, wastewater treatment operations, offices, and a cafeteria. The site is bound by West Trimble Road to the north, Orchard Parkway to the east, the Guadalupe River to the west, and a private property to the south.

## **2.0 PREVIOUS ENVIRONMENTAL ASSESSMENTS**

Langan prepared a Phase I ESA, dated 4 August 2025, for the site and identified recognized environmental conditions (RECs) based on the site history. Based on a previous interview with a key site manager and listings in the per- and polyfluoroalkyl substances (PFAS) Enforcement and Compliance History Online (ECHO) database, a PFAS compound was previously used at the site and has not been characterized in soil or groundwater.

The northern to northwest portion of the site was also previously used as an orchard during a period in which organochlorine pesticides (OCPs) were used and may have been applied. Surface soil at the site has not been assessed for OCPs as part of previous investigations. A Soil Management Plan (SMP), dated March 2018, prepared by Environmental Program Management, LLC (EPM) also identified OCPs as a chemical of concern based on the previous land use as an orchard. The EPM SMP includes recommendations for sampling and analysis of surface soil for OCPs which reported had not been implemented.

In addition, a release of diesel fuel from a product line associated with the 12,000-gallon underground storage tank (UST) was discovered in August 2000. The release was located approximately 10 feet east of the UST situated in the central portion of the site. The Regional Water Quality Control Board (RWQCB) issued a case closure letter for the release on 26 August 2003 after approximately 5,700 gallons of groundwater was pumped and disposed of. The case closure letter notes that residual impacts to soil and groundwater remain in the area of the release and development activities, such as site grading, excavation, or the installation of water wells may warrant additional investigation. Residual diesel Total Petroleum Hydrocarbons (TPH-DRO) concentrations in soil and groundwater were 13,000 milligrams per kilogram (mg/kg) and 980 micrograms per liter (µg/L), respectively, at the time of closure in August 2003.

## **2.1 Phase II Environmental Site Investigation – URS Corporation, December 2014**

In December 2014, a Phase II ESA was completed by URS Corporation (URS) to characterize soil and groundwater conditions at the site. Samples were collected in the area of the diesel UST, the facility process areas, and groundwater along the perimeter of the site. Figures and tables from the URS Phase II ESA are provided in Appendix A. The chemical analysis of the samples collected was limited and did not include OCPs (Appendix A – Table 1). A summary of the analytical results is provided below.

TPH as diesel range organics (TPH-DRO) was detected in five of six samples collected in the diesel UST area at concentrations ranging from 1.2 mg/kg to 1,100 mg/kg. TPH-DRO was detected in one groundwater sample at a concentration of 880 µg/L.

The following metals were detected in soil during URS's Phase II ESA:

- Antimony: 0.52 to 0.61 mg/kg
- Arsenic: 1.8 to 36 mg/kg
- Beryllium: 0.075 to 0.66 mg/kg
- Cadmium: 0.13 to 0.72 mg/kg
- Chromium: 26 to 87 mg/kg
- Copper: 16 to 44 mg/kg
- Lead: 2.7 to 14 mg/kg
- Mercury: 0.035 to 3 mg/kg
- Nickel: 32 to 120 mg/kg
- Zinc: 29 to 85 mg/kg

The following dissolved metals were detected in groundwater during URS's Phase II ESA:

- Arsenic: 12 to 24 µg/L

- Selenium: 21 µg/L
- Zinc: 20 to 81 µg/L
- Mercury: 0.24 µg/L

Water samples for dissolved metals are typically filtered to remove suspended particles prior to analysis. The remaining analytes, benzene, toluene, ethylbenzene, and xylenes (BTEX) and methyl tert-butyl ether (MTBE), other volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), silver, and cyanide were not detected above laboratory reporting limits in soil or groundwater.

URS concluded that the detected concentrations of diesel were consistent with or less than those detected at the time of Case Closure for the UST, with no evidence of an ongoing release, or potential impacts from the residual TPH concentrations resulting from the UST release. URS also concluded that the metals in soil were consistent with naturally occurring background levels (Appendix B) and though arsenic was detected in groundwater, shallow groundwater is not used as a drinking water source. URS recommended the preparation of an SMP to reduce the potential for construction worker exposure to potentially elevated levels of arsenic in soil.

## **2.2 Phase II Environmental Site Investigation – Burns and McDonnell Engineering Company, Inc., February 2021**

A Phase II ESA was completed by Burns and McDonnell Engineering Company, Inc. (Burns and McDonnell) to characterize soil and groundwater conditions at the southern adjoining property. Eight exploratory borings were advanced on the southern adjoining property and collected soil and groundwater samples were analyzed for VOCs, TPH, and CAM 17 metals. The groundwater samples were collected from temporary wells with no filtering. Surface soil samples were also analyzed for pesticides. Figures and tables from the Burns and McDonnell Phase II ESA are provided in Appendix C. A summary of the analytical results is provided below.

The following metals were detected in soil during Burns and McDonnell's Phase II ESA:

- Antimony: 0.44 to 0.65 mg/kg
- Arsenic: 0.61 to 9.2 mg/kg
- Barium: 45 to 260 mg/kg
- Copper: 12 to 38 mg/kg
- Lead: 2.6 to 13 mg/kg
- Mercury: 0.033 to 1.4 mg/kg

- Beryllium: 0.31 mg/kg
- Cadmium: 0.39 to 0.97 mg/kg
- Chromium: 26 to 80 mg/kg
- Cobalt: 7.2 to 20 mg/kg
- Nickel: 31 to 150 mg/kg
- Vanadium: 27 to 58 mg
- Zinc: 24 to 61 mg/kg

The following metals were detected in groundwater during Burns and McDonnell's Phase II ESA:

- Antimony: 7.3 µg/L
- Arsenic: 14 to 25 µg/L
- Barium: 200 to 500 µg/L
- Beryllium: 1.7 to 6.5 µg/L
- Cadmium: 1.1 to 4.9 µg/L
- Chromium: 30 to 110 µg/L
- Cobalt: 38 to 110 µg/L
- Copper: 89 to 270 µg/L
- Lead: 11 to 42 µg/L
- Mercury: 0.15 to 0.17 µg/L
- Nickel: 87 to 210 µg/L
- Vanadium: 67 to 390 µg/L
- Zinc: 76 to 180 µg/L

Of the soil samples analyzed, only arsenic was detected at concentrations exceeding its ESL for a commercial land use. VOCs, TPH, and pesticides in soil were not detected at concentrations exceeding their respective ESLs.

The remaining analytes, VOCs, TPH, and pesticides were not detected above laboratory reporting limits or were below their respective ESLs in soil and groundwater. Burns and McDonnell recommended no further evaluation of the southern adjoining property and measures should be taken to be protective of construction workers during redevelopment.

### **3.0 SUBSURFACE CONDITIONS**

Subsurface conditions described below are based on the soils encountered during the Langan Phase II ESA subsurface investigation and Langan's 2025 Geotechnical Investigation. Based on the results of the subsurface investigations, the soil borings indicate that the pavement section of the parking lots around the existing buildings consist of three inches of asphalt concrete (AC) over six inches of aggregate base (AB).



The first five feet of the ground surface generally consisted of clay with a layer of clayey sand at five feet below ground surface (bgs). The near-surface clay layer is underlain by alluvial soils consisting of soft to hard clay, sandy clay, clay with sand layers, and loose to dense sand with varying types and amounts of fines. In prior investigations, groundwater was encountered in borings at depths of approximately eight to 15 feet bgs. According to the California Geological Survey, the historic high groundwater level in the site vicinity is between approximately five and 10 feet bgs.

#### **4.0 FIELD INVESTIGATION**

The purpose of this Phase II ESA was to characterize the soil and groundwater at the site that may be encountered during the proposed redevelopment. It should be recognized that, due to the ongoing operations at the onsite facility, borings could not be located within buildings or proximate to the buildings/utilities.

Prior to mobilization, Langan submitted an Underground Service Alert (811 DigAlert) at least 48 hours prior to intrusive work. In addition, Langan obtained a private utility locator, Ground Penetrating Radar Systems, LLC (GPRS), to conduct a geophysical survey using ground penetrating radar (GPR) and electromagnetic detection equipment. The objective of the survey was to attempt to locate buried structures and utilities in the vicinity of each boring location and reduce the risk of an encounter with subsurface utilities. Each boring location was cleared of subsurface utilities prior to drilling.

#### **4.1 Field Activities**

Soil and groundwater sampling activities were conducted on 15 and 16 July 2025. Nine exploratory borings (SB-01 through SB-09) were advanced by Trinity Drilling, a California-licensed C-57 driller using a truck mounted direct push rig. Borings were hand cleared using a hand-auger to five feet bgs. The locations of the soil borings are shown on Figure 2.

Before advancing and between each boring location, hand and mechanized drilling equipment were cleaned and rinsed. The cleaning was completed using the triple rinse procedure as described below:

- non-phosphate detergent and distilled water wash;
- distilled water rinse; and
- distilled water rinse (twice).

Borings were logged by field staff under the supervision of a California Licensed Professional Engineer. Boring logs for this investigation are provided in Appendix D.

#### 4.1.1 Temporary Groundwater Well Construction

Soil Borings SB-01 through SB-05 were advanced to 15 feet bgs and a temporary well was constructed/installed. The construction of the temporary groundwater wells consisted of 1-inch solid Schedule 40 polyvinyl chloride (PVC) pipe to approximately 10 feet bgs. The remaining five feet consisted of 1-inch slotted schedule 40 PVC pipe. The groundwater wells were purged of at least three well volumes prior to sampling. Field parameters including temperature, pH, electrical conductivity, dissolved oxygen (DO), oxidation-reduction potential (ORP), and turbidity were measured and recorded for each location. Groundwater quality measurement forms are provided in Appendix E. Samples were collected in laboratory provided containers. The collected samples were placed in an ice chest cooled to approximately 4 ( $\pm 2$ ) °C. Groundwater was encountered at depths between approximately eight and 11 feet bgs.

#### 4.1.2 Soil Sampling

Soil samples were collected from each of the nine exploratory borings (SB-01 through SB-09). The soil samples collected screened for staining, odors, and organic vapors using a photo ionization detector (PID) and recorded on the boring log. Up to three samples were collected from each boring. For SB-01 through SB-05, one sample was collected from the shallow soil between zero to two feet bgs and from the soil above the capillary fringe. For SB-06 through SB-09, one sample was collected from the shallow soil between zero to two feet bgs and from the soil at five feet bgs. An additional third sample was at SB-04 at a depth of five feet bgs and at SB-08 at a depth of three feet bgs.

A total of 21 soil samples were collected from the nine borings. Soil samples were collected into glass jars sealed with Teflon lined lids. Soil samples to be analyzed for per- and poly-fluorinated alkyl substances (PFAS) compounds were collected in separate high-density polyethylene (HDPE) containers. The collected samples were placed in an ice chest cooled to 4 ( $\pm 2$ ) °C.

#### 4.1.3 Investigation-Derived Wasted

Upon completion of the drilling and sampling activities, the borings were backfilled with grout and the ground surface restored to match surrounding conditions. Investigation-derived waste (IDW) produced during the soil and groundwater sampling was stored in 55-gallon drums for

disposal to a landfill. The drums were staged, sampled, and handled consistent with the state and federal requirements.

## **5.0 LABORATORY TEST RESULTS AND EVALUATION**

The collected samples were submitted under chain-of-custody protocol to McCampbell Analytical Inc., a State of California accredited environmental laboratory. The groundwater samples were analyzed for VOCs by EOA Method 8260B, SVOCs by EPA Method 8270E, TPH by EPA Method 8015B, and California Assessment Manual (CAM) 17 metals by EPA Method 6010B, and PFAS by EPA Method 1633.

Soil samples were analyzed for VOCs by EPA Method 8260B, SVOCs by EPA Method 8270E, TPH by EPA Method 8015B, CAM 17 metals by EPA Method 6010B, and PFAS by EPA Method 1633. The shallow soil samples were also analyzed for pesticides by EPA Method 8081.

The laboratory analytical results were compared to the July 2025 San Francisco RWQCB ESLs. PFAS laboratory analytical results were also compared to the November 2024 EPA Regional Screening Levels (RSLs).

The laboratory analytical reports are provided in Appendix F. The laboratory analytical results are discussed below and summarized in Tables 1 through 4.

### **5.1 Groundwater Analytical Results – PFAS Compounds**

Groundwater PFAS compounds analytical results are summarized in Table 1. Five PFAS compounds were detected above their respective laboratory reporting limits. Below is a summary of the detected PFAS compounds testing results:

- Perfluorobutane sulfonic acid (PFBS) was detected above the laboratory reporting limit in each of the five samples analyzed (SB-01-GW through SB-05-GW) at concentrations ranging from 0.0021 micrograms per liter (µg/L) to 0.0061 µg/L. None of the PFBS concentrations exceeded the direct exposure tap water ESL of 0.5 µg/L, the aquatic habitat freshwater ecotox ESL of 210 µg/L, or the tap water RSL of 6 µg/L.
- Perfluorobutanoic acid (PFBA) was detected above the laboratory reporting limit in three of the five samples analyzed (SB-02-GW, SB-03-GW, and SB-05-GW) at concentrations ranging from 0.0020 µg/L to 0.01 µg/L. None of the PFBA concentrations exceeded the

tap water ESL of 18 µg/L, the aquatic freshwater ecotox level of 76 µg/L, or the tap water RSL of 18 µg/L.

- Perfluorohexane sulfonic acid (PFHxS) was detected above the laboratory reporting limit in three of the five samples analyzed (SB-03-GW, SB-04-GW, and SB-05-GW) at concentrations ranging from 0.004 µg/L to 0.0085 µg/L. The PFHxS concentrations did not exceed the aquatic freshwater ecotox level of 14 µg/L, the tap water RSL of 0.39 µg/L, or the groundwater maximum contaminant level (MCL) RSL of 0.01 µg/L. The detected concentrations did exceed the Groundwater MCL ESL of 0.003 µg/L.
- Perfluorooctane sulfonic acid (PFOS) was detected above the laboratory reporting limit in two of the five samples analyzed (SB-03-GW and SB-05-GW) at concentrations ranging from 0.016 µg/L to 0.051 µg/L. The detected concentrations exceeded each of its respective ESL and RSL.
- Perfluoropentane sulfonic acid (PFPeS) was detected above the laboratory reporting limit in one of the five samples analyzed (SB-04-GW) at a concentration of 0.0030 µg/L. There are currently no established ESLs or RSLs for PFPeS.

Though PFHxS and PFOS were detected above their respective screening levels for drinking water, groundwater at the site is not utilized as a direct drinking water source. Detected concentrations of PFOS also exceeded fresh water ecotox ESL for an aquatic habitat. However, the fresh water ecotox ESL is based on direct exposure to aquatic organisms and does not account for dilution, degradation, and attenuation. The detected concentrations of PFHxS and PFOS do not appear to be at levels which indicate a substantial source of PFAS compounds at the site. The detected concentrations of PFAS compounds in groundwater at the site are not at concentrations which would significantly impact human health or the environment to on-site or off-site receptors.

## **5.2 Groundwater Analytical Results – Non-Metals**

Groundwater non-metal analytical results are summarized in Table 2. Below is a summary of the non-metal testing results:

- No VOCs or TPH were detected above their respective laboratory reporting limits.
- Concentrations of three SVOCs - dibutyl phthalate, diethyl phthalate, and dimethyl phthalate - were detected above their respective laboratory reporting limits but below their respective commercial/industrial and construction ESLs and RSLs.

### 5.3 Groundwater Analytical Results – Metals

The groundwater analytical results for total metals are summarized on Table 2. The groundwater samples were unfiltered and collected from temporary wells. These results may be biased high due to sediments in the unfiltered samples.

Concentrations of arsenic, barium, chromium, cobalt, lead, nickel, and mercury exceed their respective ESLs. Below is a summary of the metal testing results exceeding screening levels:

- Arsenic was detected above the laboratory reporting limit in each of the five samples analyzed at concentrations ranging from 19 µg/L to 55 µg/L. Each of the five samples exceeded the respective tap water ESL and MCL Priority ESL of 0.0024 µg/L and 10 µg/L, respectively. None of the arsenic concentrations exceeded the freshwater ecotox ESL of 150 µg/L.
- Barium was detected above the laboratory reporting limit in each of the five samples analyzed at concentrations ranging from 260 µg/L to 1,300 µg/L. Two of the five samples (SB-01-GW and SB-03-GW) exceeded the respective MCL Priority ESL of 1,000 µg/L. None of the barium concentrations exceeded the tap water ESL of 2,000 µg/L.
- Beryllium was detected above the laboratory reporting limit in three of the five samples (SB-01-GW, SB-03-GW, and SB-05-GW) analyzed at concentrations ranging from 2.6 µg/L to 3.0 µg/L. Each detected beryllium concentration exceeded the tap water ESL of 1 µg/L. Two of beryllium concentrations (SB-01-GW and SB-03-GW) exceeded the freshwater ecotox ESL of 2.7 µg/L. None of the barium concentrations exceeded the MCL Priority ESL of 4 µg/L.
- Chromium was detected above the laboratory reporting limit in each of the five samples analyzed at concentrations ranging from 78 µg/L to 270 µg/L. Each of the five samples exceeded the MCL Priority ESL of 50 µg/L, and three of the of the chromium concentrations (SB-01-GW, SB-02-GW, and SB-05-GW) exceeded the freshwater ecotox ESL of 180 µg/L.
- Cobalt was detected above the laboratory reporting limit in each of the five samples analyzed at concentrations ranging from 19 µg/L to 61 µg/L. Each of the five samples exceeded the tap water ESL and freshwater ecotox ESL of 6.0 µg/L and 3.0 µg/L, respectively.

- Copper was detected above the laboratory reporting limit in each of the five samples analyzed at concentrations ranging from 41 µg/L to 150 µg/L. Each copper concentration exceeded the freshwater ecotox ESL of 9.0 µg/L but was below the MCL Priority ESL or tap water ESL of 1,000 µg/L and 300 µg/L, respectively.
- Lead was detected above the laboratory reporting limit in each of the five samples analyzed at concentrations ranging from 15 µg/L to 70 µg/L. Each of the five samples exceeded the tap water ESL and freshwater ecotox ESL of 0.2 µg/L and 2.5 µg/L respectively; four of the lead concentrations (SB-01-GW and SB-03-GW through SB-05-GW) exceeded the MCL Priority ESL of 15 µg/L.
- Mercury was detected above the laboratory reporting limit in each of the five samples analyzed at concentrations ranging from 0.39 µg/L to 2.7 µg/L. Each of the five samples exceeded the tap water ESL and freshwater ecotox ESL of 0.061 µg/L and 0.025 µg/L respectively; two of the mercury concentrations (SB-04-GW and SB-05-GW) exceeded the MCL Priority ESL of 2 µg/L. Each of the five samples also exceeded the groundwater vapor intrusion risk ESL of 0.37 µg/L.
- Nickel was detected above the laboratory reporting limit in each of the five samples analyzed at concentrations ranging from 88 µg/L to 350 µg/L. Each of the five samples exceeded the tap water ESL and freshwater ecotox ESL of 12 µg/L and 52 µg/L, respectively; four of the nickel concentrations exceeded the MCL Priority ESL of 100 µg/L.
- Selenium was detected above the laboratory reporting limit in each of the five samples analyzed at concentrations ranging from 7.5 µg/L to 15 µg/L. Each of the five samples exceeded the freshwater ecotox ESL of 5 µg/L; none of the selenium concentrations exceeded the tap water ESL or MCL Priority ESL of 30 µg/L and 50 µg/L, respectively.
- Vanadium was detected above the laboratory reporting limit in each of the five samples analyzed at concentrations ranging from 61 µg/L to 240 µg/L. Each of the five samples exceeded the tap water ESL and freshwater ecotox ESL of 50 µg/L and 19 µg/L, respectively.
- Zinc was detected above the laboratory reporting limit in each of the five samples analyzed at concentrations ranging from 74 µg/L to 330 µg/L. Four of the five zinc concentrations (SB-01-GW through SB-03-GW and SB-05-GW) exceeded the freshwater

ecotox ESL of 120 µg/L; none of the zinc concentrations exceeded the tap water ESL or MCL Priority ESL of 6,000 µg/L and 5,000 µg/L respectively.

Metals in groundwater exceeded tap water, MCL, and fresh water ecotox based ESLs. However, these ESLs are not fully applicable to the site as groundwater is not utilized as a direct drinking water source. The fresh water ecotox ESL is based on direct exposure to aquatic organisms and does not account for dilution, degradation, and attenuation.

Additionally, the sediments in the groundwater sample obtained from a temporary well is a contributing factor in the detected metal concentrations. Uninterrupted transport of sediment through the subsurface is not likely and the mobilization of metals in soil is typically driven by reducing conditions indicated by low pH. The pH values measured at stabilized conditions during groundwater sampling ranged from 6.99 to 7.18 (Appendix E), indicating neutral conditions that are not conducive to metal migration.

In addition, a comparison of the metal concentrations in upgradient wells (SB-01 and SB-02) and downgradient wells (SB-03, SB-04, and SB-05) show similar concentrations of metals which does not indicate an on-site source. Similarly, a review of a Phase II ESA by Burns and McDonald, dated 10 February 2021, for the southern adjoining property shows similar metals concentrations in groundwater for samples collected from temporary wells as summarized in the table below.

**Table A – Metals in Groundwater**

|                        | <b>Burns and McDonnell 2021</b> | <b>Langan 2025</b> |
|------------------------|---------------------------------|--------------------|
| <b>Antimony</b>        | 7.3 µg/L                        | ND                 |
| <b>Arsenic</b>         | 14 - 25 µg/L                    | 19 - 55 µg/L       |
| <b>Barium</b>          | 200 - 500 µg/L                  | 260 - 1300 µg/L    |
| <b>Beryllium</b>       | 1.7 - 6.5 µg/L                  | 2.6 - 3 µg/L       |
| <b>Cadmium</b>         | 1.1 - 4.9 µg/L                  | ND                 |
| <b>Chromium, Total</b> | 30 - 110 µg/L                   | 78 - 270 µg/L      |
| <b>Cobalt</b>          | 38 - 110 µg/L                   | 19 - 61 µg/L       |
| <b>Copper</b>          | 89 - 270 µg/L                   | 41 - 150 µg/L      |
| <b>Lead</b>            | 11 - 42 µg/L                    | 15 - 70 µg/L       |
| <b>Mercury</b>         | 0.15 - 0.17 µg/L                | 0.39 - 2.7 µg/L    |
| <b>Molybdenum</b>      | ND                              | 4.9 - 11 µg/L      |
| <b>Nickel</b>          | 87 - 210 µg/L                   | 88 - 350 µg/L      |
| <b>Selenium</b>        | 8.6 - 15 µg/L                   | 7.5 - 15 µg/L      |
| <b>Silver</b>          | ND                              | ND                 |
| <b>Thallium</b>        | 8 - 12 µg/L                     | ND                 |
| <b>Vanadium</b>        | 67 - 390 µg/L                   | 61 - 240 µg/L      |
| <b>Zinc</b>            | 76 - 180 µg/L                   | 170 - 330 µg/L     |

Note: ND – not detected

From this, the detected metals in groundwater can be attributed to typical groundwater conditions in the area and not a result of on-site activities.

To address the potential vapor intrusion risk from mercury detected in groundwater, the Department of Toxic Substances Control (DTSC) modified version of the Johnson and Ettinger Model (JE Model), October 2024 was used to calculate predicted sub-slab soil gas and indoor air concentrations. The model inputs were based on a commercial land use, the maximum detected concentration of mercury in groundwater (2.7 µg/L), a 10-foot (3 meters) depth to groundwater, and a default groundwater temperature of 24 degrees Celsius. The vadose zone was modeled based on two soil different soil types for the stratum, sand and sandy clay. The building parameters are based on DTSC's default values, which are conservative and recommended by DTSC over site-specific building parameters. The model output is included in Appendix G and summarized in the table below.



**Table B – JE Model Summary – Mercury in Groundwater**

| <b>Soil Type</b> | <b>JE Model Predicted Sub-slab Gas Concentration</b> | <b>Sub-Slab Soil Gas Vapor Intrusion ESL (commercial/industrial)</b> | <b>JE Model Predicted Indoor Air Concentration</b> | <b>Indoor Air Direct Exposure ESL (commercial/industrial)</b> |
|------------------|------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------|---------------------------------------------------------------|
| Sandy Clay       | 0.067 µg/m <sup>3</sup>                              | 4.4 µg/m <sup>3</sup>                                                | 0.002 µg/m <sup>3</sup>                            | 0.13 µg/m <sup>3</sup>                                        |
| Sand             | 2.6 µg/m <sup>3</sup>                                |                                                                      | 0.077 µg/m <sup>3</sup>                            |                                                               |

Note: µg/m<sup>3</sup> - micrograms per cubic meter

The JE Model shows that both predicted sub-slab gas and indoor air concentrations are below their respective ESLs for a commercial/industrial land use and the detected concentrations of mercury in groundwater are not likely to pose a significant vapor intrusion risk.

In summary, the detected concentrations of metals in groundwater at the site are not at concentrations which would significantly impact human health or the environment to on-site or off-site receptors.

#### **5.4 Soil Analytical Results PFAS Compounds**

The soil PFAS compounds analytical results are summarized in Table 3. Below is a summary of the PFAS compounds testing results:

- One perfluorinated compound, PFOS, was detected above the laboratory reporting limit at concentrations ranging from 0.00033 mg/kg to 0.00044 mg/kg.
- None of the PFOS concentrations exceeded the RWQCB commercial/industrial, construction worker ESL, or commercial/industrial RSL of 0.058 mg/kg, 0.027 mg/kg, and 0.058 mg/kg, respectively.

#### **5.5 Soil Analytical Results Non-Metals**

Soil analytical results for non-metals are summarized in Table 4. Below is a summary of the non-metal testing results.

- Fifteen SVOCs (see Table 4 for full list) were detected above their respective laboratory reporting limits at concentrations ranging from 0.0015 mg/kg to 0.25 mg/kg and below their respective commercial/industrial and construction ESLs.

- Eight OCPs (see Table 4 for full list) were detected above their respective laboratory reporting limits at concentrations ranging from 0.00076 mg/kg to 0.34 mg/kg and below their respective commercial/industrial and construction ESLs.
- No VOCs were detected above laboratory reporting limits in the samples analyzed.

None of the non-metal compounds exceed applicable RWQCB ESLs for commercial/industrial shallow land use or construction worker shallow and deep soil land use.

## 5.6 Soil Analytical Results Metals

The metal analytical results are summarized in Table 4. Below is a summary of the metal testing results exceeding screening levels.

- Arsenic was detected at or above the laboratory reporting limits in each of the 21 samples analyzed at concentrations ranging from 6.5 mg/kg to 61 mg/kg. Each arsenic concentration exceeded the RWQCB commercial/industrial and construction worker direct exposure ESL of 0.14 mg/kg and 1.1 mg/kg, respectively. Typical naturally occurring background levels of arsenic in the San Francisco Bay Area range from 1.2 to 31 mg/kg. Arsenic ranged from 6.7 to 36 mg/kg during the previous Phase II ESA by URS.
- Cobalt was detected at or above the laboratory reporting limits in each of the 21 samples analyzed at concentrations ranging from 9.8 mg/kg to 25 mg/kg. The cobalt concentration at two shallow locations exceeds the RWQCB construction worker direct exposure ESL of 22 mg/kg at sample locations SB-01-1 and SB-02-1.
- Lead was detected at or above the laboratory reporting limits in each of the 21 samples analyzed at concentrations ranging from 3.8 mg/kg to 170 mg/kg. The lead concentration at one shallow location exceeds the RWQCB construction worker direct exposure ESL of 140 mg/kg at sample location SB-09-1.
- Mercury was detected at or above the laboratory reporting limits in each of the 21 samples analyzed at concentrations ranging from 0.059 mg/kg to 12 mg/kg. Eight of the detected mercury concentrations (SB-01-1, SB-04-1, SB-04-5, SB-05-1, SB-05-5, SB-06-1.5, SB-07-1, and SB-08-1) exceeded the RWQCB commercial/industrial ESL of 2.9 mg/kg. Nine of the detected mercury concentrations (SB-01-1, SB-04-1, SB-04-5, SB-05-1, SB-05-5, SB-06-1.5, SB-07-1, SB-08-1, and SB-09-1) exceeded the construction worker direct exposure ESL of 2.8 mg/kg.
- Nickel was detected at or above the laboratory reporting limits in each of the 21 samples analyzed at concentrations ranging from 56 mg/kg to 200 mg/kg. Twenty of the detected mercury concentrations (each sample except SB-04-8.5) exceeded the construction worker direct exposure ESL of 63 mg/kg.

None of the other metal concentrations detected in the samples analyzed exceed applicable ESLs. A comparison of arsenic, cobalt, lead, mercury, and nickel data from the URS Phase II ESA, the Burns and McDonnell Phase II ESA for the southern adjoining property, and an October 2015 Soil Management Plan by Hayley & Aldrich, Inc. (Appendix H), for a former orchard located at 2509 Orchard Parkway, San Jose, California is presented below:

**Table C – Metals in Soil Comparison**

|                | <b>Hayley and Aldrich<br/>2015</b> | <b>URS 2014</b> | <b>Burns and<br/>McDonnell 2021</b> | <b>Langan 2025</b> |
|----------------|------------------------------------|-----------------|-------------------------------------|--------------------|
| <b>Arsenic</b> | 3.7 - 59 mg/kg                     | 2.4 - 22 mg/kg  | 0.55 - 9.2 mg/kg                    | 0.5 - 2.8 mg/kg    |
| <b>Cobalt</b>  | NA                                 | ND              | 7.2 - 20 mg/kg                      | 9.8 - 25 mg/kg     |
| <b>Lead</b>    | 11 - 130 mg/kg                     | 2.8 - 12 mg/kg  | 2.6 - 13 mg/kg                      | 3.8 - 170 mg/kg    |
| <b>Mercury</b> | 1.5 - 10 mg/kg                     | 0.049 - 3 mg/kg | 0.033 - 1.4 mg/kg                   | 0.59 - 12 mg/kg    |
| <b>Nickel</b>  | NA                                 | 32 - 110 mg/kg  | 31 - 150 mg/kg                      | 56 - 200 mg/kg     |

Notes: NA – not analyzed, ND – not detected

With the exception of arsenic (61 mg/kg at SB-09-1) and mercury (5.6 mg/kg at SB-01-1, 12 mg/kg at SB-04-1 and SB-04-5, 7.7 mg/kg at SB-05-1, 8.8 mg/kg at SB-05-5, 5.6 mg/kg at SB-06-1.5, 9.6 at SB-07-1, and 6.5 mg/kg at SB-08-1) the detected metal concentrations are either below their respective screening levels or are proximate to typical naturally occurring background levels (Appendix B). The arsenic and mercury concentrations above naturally occurring background levels may be a result of pesticide use associated with the former orchard located within the site. The detected concentrations of arsenic and mercury are at levels which can be addressed as part of an SMP during redevelopment.

## 6.0 CONCLUSIONS

The analytical results of the samples collected during the subsurface investigation indicate that concentrations of PFHxS, PFOS, arsenic, barium, beryllium, chromium, cobalt, lead, mercury, nickel, and vanadium exceed their respective screening levels in groundwater. However, the exceedances are primarily associated with drinking water screening levels and shallow groundwater at the site is not utilized as a direct drinking water source. The fresh water ecotox ESLs are also not completely applicable as it assumes direct exposure to aquatic organisms and does not account for dilution, degradation, and attenuation that occurs.

It should also be recognized that the groundwater samples were collected from temporary wells which may result in higher sediment content within each sample, potentially biasing the results

high. The detected concentrations of metals in groundwater appear to be consistent with another sets of grab groundwater samples from temporary wells collected from the southern adjoining property (Appendix F). The concentration of metals in on-site upgradient and downgradient wells are also relatively consistent which indicates that there is not a significant source of metals associated with site activities. Based on the collected data, it does not appear that the site is a substantial source of PFAS compounds that would significantly impact human health or the environment if direct exposure is managed. Similarly, metals detected in groundwater also appear to be consistent with concentrations measured in the surrounding area and should be managed for direct exposure.

VOCs, SVOCs, and TPH in groundwater were either not detected or were detected at concentrations below their respective screening levels during this sampling event. The previous TPH-d detection of 880 µg/L from the December 2014 URS Phase II ESA is likely to have continued to naturally degrade over the 10-year period from when the last sample was collected.

The detected OCPs in soil signify previous pesticide use at the site. However, the detected concentrations of OCPs are below their respective screening levels. Arsenic, cobalt, lead, mercury, and nickel in soil were detected at concentrations above their respective screening levels. Of these detections, arsenic and mercury concentrations in samples SB-01-1 (mercury at 5.6 mg/kg), SB-04-1 (mercury at 12 mg/kg), SB-04-5 (mercury at 12 mg/kg), SB-05-1 (arsenic at 32 mg/kg and mercury at 7.7 mg/kg), SB-05-5 (mercury at 8.8 mg/kg), SB-06-1.5 (mercury at 5.6 mg/kg), SB-07-1 (mercury at 9.6 mg/kg), SB-08-1 (mercury at 6.5 mg/kg), and SB-09-1 (mercury at 61 mg/kg) were above typical naturally occurring background concentrations, signifying that their presence in soil may be a result of previous site activities and originated from an anthropogenic source. The typical naturally occurring background levels for arsenic and mercury in the San Francisco Bay Area range from 1.2 to 31 mg/kg and 0.07 to 0.6 mg/kg, respectively.

Though within typical naturally occurring background levels (Appendix B), concentrations of cobalt, nickel, and lead also exceeded their construction worker ESL. Measures should be taken to address the potential for construction workers to be exposed to concentrations of cobalt, nickel, and lead with an SMP during construction, and as needed based on surface soils sampling, a post construction SMP.

VOCs, SVOCs, and TPH in soil were either not detected or were detected at concentrations below their respective screening levels during this sampling event. Though TPH was not

detected in soil during this sampling event, residual diesel impacts to soil may still be present in the area of the UST.

It should be noted that “[t]he presence of a chemical at concentrations exceeding an ESL does not necessarily indicate adverse effects on human health or the environment, rather that additional evaluation is warranted.”<sup>1</sup> However, “Sites that are adequately characterized with chemical concentration data below the ESLs most likely do not pose a chemical threat.”<sup>2</sup>

## 7.0 RECOMMENDATIONS

If groundwater is anticipated to be encountered during construction in quantities that require dewatering, a discharge permit should be obtained from either the RWQCB or in accordance with the City of San Jose Public Works Department and Santa Clara Valley Water District requirements for discharge of groundwater. Based on the analytical results, an on-site dewatering system, including a sedimentation tank, and possible filtration unit, may be needed to lower sediment content to facilitate groundwater dewatering.

With the exception of arsenic (61 mg/kg at SB-09-1) and mercury (5.6 mg/kg at SB-01-1, 12 mg/kg at SB-04-1 and SB-04-5, 7.7 mg/kg at SB-05-1, 8.8 mg/kg at SB-05-5, 5.6 mg/kg at SB-06-1.5, 9.6 at SB-07-1, and 6.5 mg/kg at SB-08-1) the detected metal concentrations are either below their respective screening levels or are proximate to typical naturally occurring background levels. It is recommended that arsenic and mercury impact at these locations be delineated and removed from the site as part of redevelopment. Delineation, excavation, and disposal of soil from these areas can be included as part of a SMP. The SMP should also include measures to be taken to reduce construction worker exposure to cobalt, nickel, and lead in soil. Personal exposure level (PEL) monitoring can be included as part of the SMP and implemented during ground disturbing activities.

If encountered during redevelopment, soil exhibiting residual impacts (staining, discoloration, odors, etc.) should be segregated and characterized. Segregated soil should be compared to levels established in the SMP to determine if the soil may be re-used on-site or if the soil needs to be disposed of at an appropriate waste facility.

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<sup>1</sup> California Regional Water Quality Control Board, San Francisco Bay Region, *User's Guide: Compilation and Application of Environmental Screening Levels (ESLs)* (Interim Final 2025) page iii.

<sup>2</sup> California Regional Water Quality Control Board, San Francisco Bay Region, *User's Guide: Compilation and Application of Environmental Screening Levels (ESLs)* (Interim Final 2025) page 1-5.

## **8.0 LIMITATIONS**

This Phase II ESA report has been prepared on behalf of GIC San Jose LLC (Client) and is specific to the proposed development project located at 350 and 370 West Trimble Road in San Jose, California. All conclusions and recommendations in this report concerning the site are the professional opinions of the Langan personnel involved with the project, and this report should not be considered a legal interpretation of existing environmental regulations. Opinions presented herein apply to site conditions existing at the time of our assessment and cannot necessarily be taken to apply to site changes or conditions of which we are not aware and have not had the opportunity to evaluate.

## TABLES

Table 1  
Summary of Groundwater Analytical Results - PFAS  
Northtown Campus  
San Jose, CA  
Langan Project No.770651908

| Analyte                                                          | CAS Number  | Groundwater Direct Exposure ESL - MCL | Groundwater Direct Exposure Tapwater ESL | Aquatic Habitat Goal ESL - Fresh Water Ecotox | EPA RSL Tapwater | EPA RSL Groundwater MCL | Location    | IDW-2      | SB-01      | SB-02      | SB-03      | SB-04      | SB-05      |
|------------------------------------------------------------------|-------------|---------------------------------------|------------------------------------------|-----------------------------------------------|------------------|-------------------------|-------------|------------|------------|------------|------------|------------|------------|
|                                                                  |             |                                       |                                          |                                               |                  |                         | Sample Name | IDW-2      | SB-01-GW   | SB-02-GW   | SB-03-GW   | SB-04-GW   | SB-05-GW   |
|                                                                  |             |                                       |                                          |                                               |                  |                         | Sample Date | 07/16/2025 | 07/15/2025 | 07/15/2025 | 07/15/2025 | 07/16/2025 | 07/16/2025 |
|                                                                  |             |                                       |                                          |                                               |                  |                         | Unit        | Result     | Result     | Result     | Result     | Result     | Result     |
| Per- and Polyfluoroalkyl Substances                              |             |                                       |                                          |                                               |                  |                         |             |            |            |            |            |            |            |
| 11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OL) | 763051-92-9 | NS                                    | NS                                       | NS                                            | NS               | NS                      | ug/l        | <0.0062 U  | <0.0018 U  | <0.0018 U  | <0.0017 U  | <0.0017 U  | <0.0017 U  |
| 1H,1H,2H,2H-Perfluorodecane Sulfonic Acid (8:2FTS)               | 39108-34-4  | NS                                    | NS                                       | NS                                            | NS               | NS                      | ug/l        | <0.0062 U  | <0.0018 U  | <0.0018 U  | <0.0017 U  | <0.0017 U  | <0.0017 U  |
| 1h,1h,2h,2h-Perfluorododecanesulfonic Acid (10:2 FTS)            | 120226-60-0 | NS                                    | NS                                       | NS                                            | NS               | NS                      | ug/l        | <0.012 U   | <0.0017 U  | <0.0017 U  | <0.0016 U  | <0.0016 U  | <0.0017 U  |
| 1H,1H,2H,2H-Perfluorohexane Sulfonic Acid (4:2 FTS)              | 757124-72-4 | NS                                    | NS                                       | NS                                            | NS               | NS                      | ug/l        | <0.0062 U  | <0.0018 U  | <0.0018 U  | <0.0017 U  | <0.0017 U  | <0.0017 U  |
| 1H,1H,2H,2H-Perfluorooctane Sulfonic Acid (6:2 FTS)              | 27619-97-2  | NS                                    | NS                                       | NS                                            | NS               | NS                      | ug/l        | <0.0062 U  | <0.0018 U  | <0.0018 U  | <0.0017 U  | <0.0017 U  | <0.0017 U  |
| 2H,2H,3H,3H-Perfluorooctanoic Acid (5:3 FTCA)                    | 914637-49-3 | NS                                    | NS                                       | NS                                            | NS               | NS                      | ug/l        | <0.0062 U  | <0.0018 U  | <0.0018 U  | <0.0017 U  | <0.0017 U  | <0.0017 U  |
| 3-Perfluoroheptyl Propanoic Acid (7:3 FTCA)                      | 812-70-4    | NS                                    | NS                                       | NS                                            | NS               | NS                      | ug/l        | <0.0062 U  | <0.0018 U  | <0.0018 U  | <0.0017 U  | <0.0017 U  | <0.0017 U  |
| 3-Perfluoropropyl Propanoic Acid (3:3 FTCA)                      | 356-02-5    | NS                                    | NS                                       | NS                                            | NS               | NS                      | ug/l        | <0.0062 U  | <0.0018 U  | <0.0018 U  | <0.0017 U  | <0.0017 U  | <0.0017 U  |
| 4,8-Dioxa-3H-perfluorononanoic Acid (ADONA)                      | 919005-14-4 | NS                                    | NS                                       | NS                                            | NS               | NS                      | ug/l        | <0.0062 U  | <0.0018 U  | <0.0018 U  | <0.0017 U  | <0.0017 U  | <0.0017 U  |
| 9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid (9Cl-PF3ONS)  | 756426-58-1 | NS                                    | NS                                       | NS                                            | NS               | NS                      | ug/l        | <0.0062 U  | <0.0018 U  | <0.0018 U  | <0.0017 U  | <0.0017 U  | <0.0017 U  |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)                   | 13252-13-6  | NS                                    | 0.015                                    | NS                                            | 0.015            | 0.01                    | ug/l        | <0.0062 U  | <0.0018 U  | <0.0018 U  | <0.0017 U  | <0.0017 U  | <0.0017 U  |
| N-ethyl Perfluorooctanesulfonamide (NEtFOSA)                     | 4151-50-2   | NS                                    | NS                                       | NS                                            | NS               | NS                      | ug/l        | <0.012 U   | <0.0018 U  | <0.0018 U  | <0.0017 U  | <0.0017 U  | <0.0017 U  |
| N-ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)         | 2991-50-6   | NS                                    | NS                                       | NS                                            | NS               | NS                      | ug/l        | <0.012 U   | <0.0018 U  | <0.0018 U  | <0.0017 U  | <0.0017 U  | <0.0017 U  |
| N-ethyl Perfluorooctanesulfonamidoethanol (NEtFOSE)              | 1691-99-2   | NS                                    | NS                                       | NS                                            | NS               | NS                      | ug/l        | <0.012 U   | <0.0018 U  | <0.0018 U  | <0.0017 U  | <0.0017 U  | <0.0017 U  |
| N-methyl Perfluorooctanesulfonamide (NMeFOSA)                    | 31506-32-8  | NS                                    | NS                                       | NS                                            | NS               | NS                      | ug/l        | <0.012 U   | <0.0018 U  | <0.0018 U  | <0.0017 U  | <0.0017 U  | <0.0017 U  |
| N-methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)        | 2355-31-9   | NS                                    | NS                                       | NS                                            | NS               | NS                      | ug/l        | <0.0062 U  | <0.0018 U  | <0.0018 U  | <0.0017 U  | <0.0017 U  | <0.0017 U  |
| N-methyl Perfluorooctanesulfonamidoethanol (NMeFOSE)             | 24448-09-7  | NS                                    | NS                                       | NS                                            | NS               | NS                      | ug/l        | <0.012 U   | <0.0018 U  | <0.0018 U  | <0.0017 U  | <0.0017 U  | <0.0017 U  |
| Nonafluoro-3,6-dioxaheptanoic Acid (NFDHA)                       | 151772-58-6 | NS                                    | NS                                       | NS                                            | NS               | NS                      | ug/l        | <0.0062 U  | <0.0018 U  | <0.0018 U  | <0.0017 U  | <0.0017 U  | <0.0017 U  |
| Perfluoro(2-ethoxyethane)sulfonic Acid (PFEESA)                  | 113507-82-7 | NS                                    | NS                                       | NS                                            | NS               | NS                      | ug/l        | <0.0062 U  | <0.0018 U  | <0.0018 U  | <0.0017 U  | <0.0017 U  | <0.0017 U  |
| Perfluoro-3-methoxypropanoic acid (PFMPA)                        | 377-73-1    | NS                                    | NS                                       | NS                                            | NS               | NS                      | ug/l        | <0.0062 U  | <0.0018 U  | <0.0018 U  | <0.0017 U  | <0.0017 U  | <0.0017 U  |
| Perfluoro-4-methoxybutanoic acid (PFMBA)                         | 863090-89-5 | NS                                    | NS                                       | NS                                            | NS               | NS                      | ug/l        | <0.0062 U  | <0.0018 U  | <0.0018 U  | <0.0017 U  | <0.0017 U  | <0.0017 U  |
| Perfluorobutanesulfonic Acid (PFBS)                              | 375-73-5    | NS                                    | 0.5                                      | 210                                           | 6                | NS                      | ug/l        | <0.0062 U  | 0.0028     | 0.0021     | 0.0041     | 0.0061     | 0.0022     |
| Perfluorobutanoic acid (PFBA)                                    | 375-22-4    | NS                                    | 18                                       | 76                                            | 18               | NS                      | ug/l        | 0.01       | <0.0018 U  | 0.002      | 0.01       | <0.0017 U  | 0.0046     |
| Perfluorodecanesulfonic Acid (PFDS)                              | 335-77-3    | NS                                    | NS                                       | NS                                            | NS               | NS                      | ug/l        | <0.012 U   | <0.0018 U  | <0.0018 U  | <0.0017 U  | <0.0017 U  | <0.0017 U  |
| Perfluorodecanoic Acid (PFDA)                                    | 335-76-2    | NS                                    | 0.00004                                  | 0.094                                         | 0.00004          | NS                      | ug/l        | <0.0062 U  | <0.0018 U  | <0.0018 U  | <0.0017 U  | <0.0017 U  | <0.0017 U  |
| Perfluorododecanesulfonic Acid (PFDoS)                           | 79780-39-5  | NS                                    | NS                                       | NS                                            | NS               | NS                      | ug/l        | <0.012 U   | <0.0018 U  | <0.0018 U  | <0.0017 U  | <0.0017 U  | <0.0017 U  |
| Perfluorododecanoic Acid (PFDoA)                                 | 307-55-1    | NS                                    | 1                                        | 72                                            | 1                | NS                      | ug/l        | <0.0062 U  | <0.0018 U  | <0.0018 U  | <0.0017 U  | <0.0017 U  | <0.0017 U  |
| Perfluoroheptanesulfonic Acid (PFHpS)                            | 375-92-8    | NS                                    | NS                                       | NS                                            | NS               | NS                      | ug/l        | <0.012 U   | <0.0018 U  | <0.0018 U  | <0.0017 U  | <0.0017 U  | <0.0017 U  |
| Perfluoroheptanoic acid (PFHpA)                                  | 375-85-9    | NS                                    | NS                                       | 870                                           | NS               | NS                      | ug/l        | <0.0062 U  | <0.0018 U  | <0.0018 U  | <0.0017 U  | <0.0017 U  | <0.0017 U  |
| Perfluorohexadecanoic Acid (PFHxDA)                              | 67905-19-5  | NS                                    | NS                                       | NS                                            | NS               | NS                      | ug/l        | <0.0062 U  | <0.0018 U  | <0.0018 U  | <0.0017 U  | <0.0017 U  | <0.0017 U  |
| Perfluorohexanesulfonic Acid (PFHxS)                             | 355-46-4    | NS                                    | 0.003                                    | 14                                            | 0.39             | 0.01                    | ug/l        | <0.0062 U  | <0.0018 U  | <0.0018 U  | 0.0084     | 0.0085     | 0.004      |
| Perfluorohexanoic Acid (PFHxA)                                   | 307-24-4    | NS                                    | 9.9                                      | 34                                            | 9.9              | NS                      | ug/l        | <0.0062 U  | <0.0018 U  | <0.0018 U  | <0.0017 U  | <0.0017 U  | <0.0017 U  |
| Perfluorononanesulfonic Acid (PFNS)                              | 68259-12-1  | NS                                    | NS                                       | NS                                            | NS               | NS                      | ug/l        | <0.012 U   | <0.0018 U  | <0.0018 U  | <0.0017 U  | <0.0017 U  | <0.0017 U  |
| Perfluorononanoic Acid (PFNA)                                    | 375-95-1    | NS                                    | 0.059                                    | 0.12                                          | 0.059            | 0.01                    | ug/l        | <0.0062 U  | <0.0018 U  | <0.0018 U  | <0.0017 U  | <0.0017 U  | <0.0017 U  |
| Perfluorooctadecanoic Acid (PFODA)                               | 16517-11-6  | NS                                    | 800                                      | NS                                            | 800              | NS                      | ug/l        | <0.0062 U  | <0.0018 U  | <0.0018 U  | <0.0017 U  | <0.0017 U  | <0.0017 U  |
| Perfluorooctanesulfonamide (PFOSA)                               | 754-91-6    | NS                                    | NS                                       | NS                                            | NS               | NS                      | ug/l        | <0.012 U   | <0.0018 U  | <0.0018 U  | <0.0017 U  | <0.0017 U  | <0.0017 U  |
| Perfluorooctanesulfonic Acid (PFOS)                              | 1763-23-1   | 0.004                                 | 0.001                                    | 0.017                                         | 0.002            | 0.004                   | ug/l        | <0.012 U   | <0.0018 U  | <0.0018 U  | 0.051      | <0.0017 U  | 0.016      |
| Perfluorooctanoic Acid (PFOA)                                    | 335-67-1    | 0.004                                 | 0.0000027                                | 48                                            | 0.0000027        | 0.004                   | ug/l        | <0.0062 U  | <0.0018 U  | <0.0018 U  | <0.0017 U  | <0.0017 U  | <0.0017 U  |
| Perfluoropentanesulfonic Acid (PFPeS)                            | 2706-91-4   | NS                                    | NS                                       | NS                                            | NS               | NS                      | ug/l        | <0.0062 U  | <0.0018 U  | <0.0018 U  | <0.0017 U  | 0.003      | <0.0017 U  |
| Perfluoropentanoic Acid (PFPeA)                                  | 2706-90-3   | NS                                    | NS                                       | 140                                           | NS               | NS                      | ug/l        | <0.0062 U  | <0.0018 U  | <0.0018 U  | <0.0017 U  | <0.0017 U  | <0.0017 U  |
| Perfluorotetradecanoic Acid (PFTeDA)                             | 376-06-7    | NS                                    | 20                                       | NS                                            | 20               | NS                      | ug/l        | <0.0062 U  | <0.0018 U  | <0.0018 U  | <0.0017 U  | <0.0017 U  | <0.0017 U  |
| Perfluorotridecanoic Acid (PFTrDA)                               | 72629-94-8  | NS                                    | NS                                       | NS                                            | NS               | NS                      | ug/l        | <0.0062 U  | <0.0018 U  | <0.0018 U  | <0.0017 U  | <0.0017 U  | <0.0017 U  |
| Perfluoroundecanoic Acid (PFUnDA)                                | 2058-94-8   | NS                                    | 6                                        | 49                                            | 6                | NS                      | ug/l        | <0.0062 U  | <0.0018 U  | <0.0018 U  | <0.0017 U  | <0.0017 U  | <0.0017 U  |
| PFAS Hazard Index                                                | PFAS_HI     | 1                                     | NS                                       | NS                                            | NS               | 1                       |             | 0          | 0.0014     | 0.00105    | 0.84205    | 0.85305    | 0.4011     |



Table 1  
Summary of Groundwater Analytical Results - PFAS  
Northtown Campus  
San Jose, CA  
Langan Project No.770651908

September 2025

Notes:

Groundwater results were compared to San Francisco Bay RWQCB Groundwater Direct Exposure Human Health Risk Levels MCL (July 2025), San Francisco Bay RWQCB Groundwater Direct Exposure Human Health Risk Levels Tapwater, Lower of Cancer Risk and Noncancer Hazard Values (July 2025) ,San Francisco Bay RWQCB Aquatic Habitat Goal ESL - Fresh Water Ecotox (July 2025), EPA RSL Tapwater and EPA RSL Groundwater MCL criteria (November 2024)

RWQCB - Regional Water Quality Control Board

ESL - Environmental Screening Level

EPA - Environmental Protection Agency

RSL - Regional Screening Level

MCL - Maximum Contaminant Level

CAS - Chemical Abstract Service

NS - No standard

ug/l - micrograms per liter

NA - Not Analyzed

RL - Reporting Limit

<RL - Not detected

Qualifiers:

U - The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.

Exceedance Summary:

- 10 - Result exceeds Groundwater Direct Exposure ESL - MCL
- 10 - Result exceeds Groundwater Direct Exposure Tapwater ESL
- 10 - Result exceeds Aquatic Habitat Goal ESL - Fresh Water Ecotox
- 10 - Result exceeds EPA RSL Tapwater
- 10 - Result exceeds EPA RSL Groundwater MCL

| Analyte                                       | CAS Number  | Groundwater Direct Exposure ESL - MCL | Groundwater Direct Exposure Tapwater ESL | Aquatic Habitat Goal ESL - Fresh Water Ecotox | Groundwater VI Commercial ESL | Location    | IDW-2      | SB-01      | SB-02      | SB-03      | SB-04      | SB-05      |        |        |        |        |        |        |
|-----------------------------------------------|-------------|---------------------------------------|------------------------------------------|-----------------------------------------------|-------------------------------|-------------|------------|------------|------------|------------|------------|------------|--------|--------|--------|--------|--------|--------|
|                                               |             |                                       |                                          |                                               |                               | Sample Name | IDW-2      | SB-01-GW   | SB-02-GW   | SB-03-GW   | SB-04-GW   | SB-05-GW   |        |        |        |        |        |        |
|                                               |             |                                       |                                          |                                               |                               | Sample Date | 07/16/2025 | 07/15/2025 | 07/15/2025 | 07/15/2025 | 07/16/2025 | 07/16/2025 |        |        |        |        |        |        |
| Unit                                          |             |                                       |                                          |                                               |                               |             |            |            |            |            |            |            | Result | Result | Result | Result | Result | Result |
| Volatile Organic Compounds                    |             |                                       |                                          |                                               |                               |             |            |            |            |            |            |            |        |        |        |        |        |        |
| 1,1,1,2-Tetrachloroethane                     | 630-20-6    | NS                                    | 0.57                                     | 930                                           | 16                            | ug/l        | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     |        |        |        |        |        |        |
| 1,1,1-Trichloroethane                         | 71-55-6     | 200                                   | 1000                                     | 62                                            | 6200                          | ug/l        | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     |        |        |        |        |        |        |
| 1,1,2,2-Tetrachloroethane                     | 79-34-5     | 1                                     | 0.076                                    | 420                                           | 14                            | ug/l        | <0.02 U    | <0.02 U    | <0.02 U    | <0.02 U    | <0.02 U    | <0.02 U    |        |        |        |        |        |        |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane         | 76-13-1     | NS                                    | NS                                       | NS                                            | NS                            | ug/l        | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     |        |        |        |        |        |        |
| 1,1,2-Trichloroethane                         | 79-00-5     | 5                                     | 0.28                                     | 4700                                          | 23                            | ug/l        | <0.1 U     | <0.1 U     | <0.1 U     | <0.1 U     | <0.1 U     | <0.1 U     |        |        |        |        |        |        |
| 1,1-Dichloroethane                            | 75-34-3     | 5                                     | 2.8                                      | 47                                            | 33                            | ug/l        | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     |        |        |        |        |        |        |
| 1,1-Dichloroethene                            | 75-35-4     | 6                                     | 8.2                                      | 25                                            | 16                            | ug/l        | <0.01 U    | <0.01 U    | <0.01 U    | <0.01 U    | <0.01 U    | <0.01 U    |        |        |        |        |        |        |
| 1,1-Dichloropropene                           | 563-58-6    | NS                                    | NS                                       | NS                                            | NS                            | ug/l        | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     |        |        |        |        |        |        |
| 1,2,3-Trichlorobenzene                        | 87-61-6     | NS                                    | NS                                       | NS                                            | NS                            | ug/l        | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     |        |        |        |        |        |        |
| 1,2,3-Trichloropropane                        | 96-18-4     | 0.005                                 | 0.0007                                   | 2700                                          | 94                            | ug/l        | <0.005 U   | <0.005 U   | <0.005 U   | <0.005 U   | <0.005 U   | <0.005 U   |        |        |        |        |        |        |
| 1,2,4-Trichlorobenzene                        | 120-82-1    | 5                                     | 1.2                                      | 25                                            | 150                           | ug/l        | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     |        |        |        |        |        |        |
| 1,2,4-Trimethylbenzene                        | 95-63-6     | NS                                    | NS                                       | NS                                            | NS                            | ug/l        | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     |        |        |        |        |        |        |
| 1,2-Dibromo-3-Chloropropane                   | 96-12-8     | 0.2                                   | 0.0003                                   | NS                                            | 0.34                          | ug/l        | <0.02 U    | <0.02 U    | <0.02 U    | <0.02 U    | <0.02 U    | <0.02 U    |        |        |        |        |        |        |
| 1,2-Dibromoethane (Ethylene Dibromide)        | 106-93-4    | 0.05                                  | 0.0075                                   | 1400                                          | 0.77                          | ug/l        | <0.04 U    | <0.04 U    | <0.04 U    | <0.04 U    | <0.04 U    | <0.04 U    |        |        |        |        |        |        |
| 1,2-Dichlorobenzene                           | 95-50-1     | 600                                   | 300                                      | 14                                            | 11000                         | ug/l        | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     |        |        |        |        |        |        |
| 1,2-Dichloroethane                            | 107-06-2    | 0.5                                   | 0.17                                     | 10000                                         | 9.8                           | ug/l        | <0.02 U    | <0.02 U    | <0.02 U    | <0.02 U    | <0.02 U    | <0.02 U    |        |        |        |        |        |        |
| 1,2-Dichloropropane                           | 78-87-5     | 5                                     | 0.5                                      | 2900                                          | 29                            | ug/l        | <0.1 U     | <0.1 U     | <0.1 U     | <0.1 U     | <0.1 U     | <0.1 U     |        |        |        |        |        |        |
| 1,3,5-Trimethylbenzene (Mesitylene)           | 108-67-8    | NS                                    | NS                                       | NS                                            | NS                            | ug/l        | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     |        |        |        |        |        |        |
| 1,3-Dichlorobenzene                           | 541-73-1    | NS                                    | NS                                       | NS                                            | NS                            | ug/l        | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     |        |        |        |        |        |        |
| 1,3-Dichloropropane                           | 142-28-9    | NS                                    | NS                                       | NS                                            | NS                            | ug/l        | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     |        |        |        |        |        |        |
| 1,4-Dichlorobenzene                           | 106-46-7    | 5                                     | 0.48                                     | 15                                            | 11                            | ug/l        | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     |        |        |        |        |        |        |
| 2,2-Dichloropropane                           | 594-20-7    | NS                                    | NS                                       | NS                                            | NS                            | ug/l        | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     |        |        |        |        |        |        |
| 2-Chlorotoluene                               | 95-49-8     | NS                                    | NS                                       | NS                                            | NS                            | ug/l        | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     |        |        |        |        |        |        |
| 2-Hexanone (MBK)                              | 591-78-6    | NS                                    | NS                                       | NS                                            | NS                            | ug/l        | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     |        |        |        |        |        |        |
| 4-Chlorotoluene                               | 106-43-4    | NS                                    | NS                                       | NS                                            | NS                            | ug/l        | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     |        |        |        |        |        |        |
| Acetone                                       | 67-64-1     | NS                                    | 14000                                    | 1500                                          | 95000000                      | ug/l        | <40 U      | <40 U      | <40 U      | <40 U      | <40 U      | <40 U      |        |        |        |        |        |        |
| Benzene                                       | 71-43-2     | 1                                     | 0.15                                     | 46                                            | 1.9                           | ug/l        | <0.2 U     | <0.2 U     | <0.2 U     | <0.2 U     | <0.2 U     | <0.2 U     |        |        |        |        |        |        |
| Bromobenzene                                  | 108-86-1    | NS                                    | NS                                       | NS                                            | NS                            | ug/l        | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     |        |        |        |        |        |        |
| Bromochloromethane                            | 74-97-5     | NS                                    | NS                                       | NS                                            | NS                            | ug/l        | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     |        |        |        |        |        |        |
| Bromodichloromethane                          | 75-27-4     | 80                                    | 0.06                                     | 1100                                          | 3.8                           | ug/l        | 1.5        | <0.05 U    | <0.05 U    | <0.05 U    | <0.05 U    | <0.05 U    |        |        |        |        |        |        |
| Bromoform                                     | 75-25-2     | 80                                    | 0.5                                      | 1100                                          | 510                           | ug/l        | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     |        |        |        |        |        |        |
| Bromomethane                                  | 74-83-9     | NS                                    | 7.5                                      | 160                                           | 73                            | ug/l        | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     |        |        |        |        |        |        |
| Butane, 2-Methoxy-2-Methyl                    | 994-05-8    | NS                                    | NS                                       | NS                                            | NS                            | ug/l        | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     |        |        |        |        |        |        |
| Carbon Disulfide                              | 75-15-0     | NS                                    | NS                                       | NS                                            | NS                            | ug/l        | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     |        |        |        |        |        |        |
| Carbon Tetrachloride                          | 56-23-5     | 0.5                                   | 0.1                                      | 240                                           | 1.8                           | ug/l        | <0.05 U    | <0.05 U    | <0.05 U    | <0.05 U    | <0.05 U    | <0.05 U    |        |        |        |        |        |        |
| Chlorobenzene                                 | 108-90-7    | 70                                    | 70                                       | 25                                            | 1700                          | ug/l        | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     |        |        |        |        |        |        |
| Chloroethane                                  | 75-00-3     | NS                                    | 8300                                     | NS                                            | 39000                         | ug/l        | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     |        |        |        |        |        |        |
| Chloroform                                    | 67-66-3     | 80                                    | 0.22                                     | 620                                           | 3.6                           | ug/l        | 1.9        | <0.1 U     | <0.1 U     | <0.1 U     | <0.1 U     | <0.1 U     |        |        |        |        |        |        |
| Chloromethane                                 | 74-87-3     | NS                                    | 190                                      | 1100                                          | 1100                          | ug/l        | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     |        |        |        |        |        |        |
| Cis-1,2-Dichloroethene                        | 156-59-2    | 6                                     | 13                                       | 590                                           | 1100                          | ug/l        | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     |        |        |        |        |        |        |
| Cis-1,3-Dichloropropene                       | 10061-01-5  | NS                                    | NS                                       | NS                                            | NS                            | ug/l        | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     |        |        |        |        |        |        |
| Cymene                                        | 99-87-6     | NS                                    | NS                                       | NS                                            | NS                            | ug/l        | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     |        |        |        |        |        |        |
| Dibromochloromethane                          | 124-48-1    | 80                                    | 0.1                                      | 1100                                          | NS                            | ug/l        | 1          | <0.15 U    | <0.15 U    | <0.15 U    | <0.15 U    | <0.15 U    |        |        |        |        |        |        |
| Dibromomethane                                | 74-95-3     | NS                                    | NS                                       | NS                                            | NS                            | ug/l        | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     |        |        |        |        |        |        |
| Dichlorodifluoromethane                       | 75-71-8     | NS                                    | NS                                       | NS                                            | NS                            | ug/l        | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     |        |        |        |        |        |        |
| Ethyl Tert-Butyl Ether                        | 637-92-3    | NS                                    | NS                                       | NS                                            | NS                            | ug/l        | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     |        |        |        |        |        |        |
| Ethylbenzene                                  | 100-41-4    | 300                                   | 1.5                                      | 290                                           | 15                            | ug/l        | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     |        |        |        |        |        |        |
| Hexachlorobutadiene                           | 87-68-3     | NS                                    | 0.14                                     | 4.7                                           | 1.3                           | ug/l        | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     |        |        |        |        |        |        |
| Hexachloroethane                              | 67-72-1     | NS                                    | 0.33                                     | 12                                            | 7                             | ug/l        | <0.2 U     | <0.2 U     | <0.2 U     | <0.2 U     | <0.2 U     | <0.2 U     |        |        |        |        |        |        |
| Isopropyl Ether                               | 108-20-3    | NS                                    | NS                                       | NS                                            | NS                            | ug/l        | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     |        |        |        |        |        |        |
| Isopropylbenzene (Cumene)                     | 98-82-8     | NS                                    | NS                                       | NS                                            | NS                            | ug/l        | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     |        |        |        |        |        |        |
| M,P-Xylene                                    | 179601-23-1 | NS                                    | NS                                       | NS                                            | NS                            | ug/l        | <1 U       | <1 U       | <1 U       | <1 U       | <1 U       | <1 U       |        |        |        |        |        |        |
| Methyl Ethyl Ketone (2-Butanone)              | 78-93-3     | NS                                    | 5600                                     | 14000                                         | 9400000                       | ug/l        | 7.6        | <5 U       | <5 U       | <5 U       | <5 U       | <5 U       |        |        |        |        |        |        |
| Methyl Isobutyl Ketone (4-Methyl-2-Pentanone) | 108-10-1    | NS                                    | 120                                      | 170                                           | 2300000                       | ug/l        | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     |        |        |        |        |        |        |
| Methylene Chloride                            | 75-09-2     | 5                                     | 1.7                                      | 2200                                          | 92                            | ug/l        | <2 U       | <2 U       | <2 U       | <2 U       | <2 U       | <2 U       |        |        |        |        |        |        |
| Naphthalene                                   | 91-20-3     | NS                                    | 0.12                                     | 24                                            | 20                            | ug/l        | <0.3 U     | <0.3 U     | <0.3 U     | <0.3 U     | <0.3 U     | <0.3 U     |        |        |        |        |        |        |
| n-Butylbenzene                                | 104-51-8    | NS                                    | NS                                       | NS                                            | NS                            | ug/l        | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     |        |        |        |        |        |        |
| n-Propylbenzene                               | 103-65-1    | NS                                    | NS                                       | NS                                            | NS                            | ug/l        | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     |        |        |        |        |        |        |
| o-Xylene (1,2-Dimethylbenzene)                | 95-47-6     | NS                                    | NS                                       | NS                                            | NS                            | ug/l        | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     |        |        |        |        |        |        |
| Sec-Butylbenzene                              | 135-98-8    | NS                                    | NS                                       | NS                                            | NS                            | ug/l        | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     |        |        |        |        |        |        |
| Styrene                                       | 100-42-5    | 100                                   | 0.5                                      | NS                                            | 35000                         | ug/l        | <2 U       | <2 U       | <2 U       | <2 U       | <2 U       | <2 U       |        |        |        |        |        |        |
| T-Butylbenzene                                | 98-06-6     | NS                                    | NS                                       | NS                                            | NS                            | ug/l        | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     |        |        |        |        |        |        |
| Tert-Butyl Alcohol                            | 75-65-0     | NS                                    | 12                                       | 18000                                         | 59000000                      | ug/l        | <5 U       | <5 U       | <5 U       | <5 U       | <5 U       | <5 U       |        |        |        |        |        |        |
| Tert-Butyl Methyl Ether                       | 1634-04-4   | 5                                     | 13                                       | 66000                                         | 2000                          | ug/l        | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     |        |        |        |        |        |        |
| Tetrachloroethene (PCE)                       | 127-18-4    | 5                                     | 0.06                                     | 120                                           | 2.8                           | ug/l        | <0.2 U     | <0.2 U     | <0.2 U     | <0.2 U     | <0.2 U     | <0.2 U     |        |        |        |        |        |        |
| Toluene                                       | 108-88-3    | 150                                   | 150                                      | 130                                           | 6800                          | ug/l        | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     |        |        |        |        |        |        |
| Total Xylenes                                 | 1330-20-7   | 1800                                  | 190                                      | NS                                            | 1600                          | ug/l        | <1 U       | <1 U       | <1 U       | <1 U       | <1 U       | <1 U       |        |        |        |        |        |        |
| Trans-1,2-Dichloroethene                      | 156-60-5    | 10                                    | 50                                       | 590                                           | 460                           | ug/l        | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     |        |        |        |        |        |        |
| Trans-1,3-Dichloropropene                     | 10061-02-6  | NS                                    | NS                                       | NS                                            | NS                            | ug/l        | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     |        |        |        |        |        |        |
| Trichloroethene (TCE)                         | 79-01-6     | 5                                     | 0.49                                     | 360                                           | 7.4                           | ug/l        | <0.1 U     | <0.1 U     | <0.1 U     | <0.1 U     | <0.1 U     | <0.1 U     |        |        |        |        |        |        |
| Trichlorofluoromethane                        | 75-69-4     | NS                                    | NS                                       | NS                                            | NS                            | ug/l        | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     | <0.5 U     |        |        |        |        |        |        |
| Vinyl Chloride                                | 75-01-4     | 0.5                                   | 0.0097                                   | 780                                           | 0.14                          | ug/l        | <0.005 U   | <0.005 U   | <0.005 U   | <0.005 U   | <0.005 U   | <0.005 U   |        |        |        |        |        |        |

Table 2  
Summary of Groundwater Analytical Results  
Northtown Campus  
San Jose, CA  
Langan Project No: 770651908

| Analyte                                        | CAS Number | Groundwater    | Groundwater  | Aquatic Habitat | Groundwater   | Location    | IDW-2      | SB-01      | SB-02      | SB-03      | SB-04      | SB-05      |
|------------------------------------------------|------------|----------------|--------------|-----------------|---------------|-------------|------------|------------|------------|------------|------------|------------|
|                                                |            | Direct         | Direct       | Goal ESL -      | VI Commercial | Sample Name | IDW-2      | SB-01-GW   | SB-02-GW   | SB-03-GW   | SB-04-GW   | SB-05-GW   |
|                                                |            | Exposure ESL - | Exposure     | Fresh Water     | ESL           | Sample Date | 07/16/2025 | 07/15/2025 | 07/15/2025 | 07/15/2025 | 07/16/2025 | 07/16/2025 |
|                                                |            | MCL            | Tapwater ESL | Ecotox          |               | Unit        | Result     | Result     | Result     | Result     | Result     | Result     |
| Semi-Volatile Organic Compounds                |            |                |              |                 |               |             |            |            |            |            |            |            |
| 1,2,4-Trichlorobenzene                         | 120-82-1   | 5              | 1.2          | 25              | 150           | ug/l        | <4.7 U     | <4.9 U     | <1 U       | <0.98 U    | <0.97 U    | <0.97 U    |
| 1,2-Dichlorobenzene                            | 95-50-1    | 600            | 300          | 14              | 11000         | ug/l        | <4.7 U     | <4.9 U     | <1 U       | <0.98 U    | <0.97 U    | <0.97 U    |
| 1,2-Diphenylhydrazine                          | 122-66-7   | NS             | NS           | NS              | NS            | ug/l        | <4.7 U     | <4.9 U     | <1 U       | <0.98 U    | <0.97 U    | <0.97 U    |
| 1,3-Dichlorobenzene                            | 541-73-1   | NS             | NS           | NS              | NS            | ug/l        | <4.7 U     | <4.9 U     | <1 U       | <0.98 U    | <0.97 U    | <0.97 U    |
| 1,4-Dichlorobenzene                            | 106-46-7   | 5              | 0.48         | 15              | 11            | ug/l        | <4.7 U     | <4.9 U     | <1 U       | <0.98 U    | <0.97 U    | <0.97 U    |
| 1-Methylnaphthalene                            | 90-12-0    | NS             | NS           | NS              | NS            | ug/l        | <0.024 U   | <0.024 U   | <0.0051 U  | <0.0049 U  | <0.0048 U  | <0.0048 U  |
| 2,3,4,6-Tetrachlorophenol                      | 58-90-2    | NS             | NS           | NS              | NS            | ug/l        | <4.7 U     | <4.9 U     | <1 U       | <0.98 U    | <0.97 U    | <0.97 U    |
| 2,4,5-Trichlorophenol                          | 95-95-4    | NS             | 1200         | 63              | NS            | ug/l        | <0.047 U   | <0.049 U   | <0.01 U    | <0.0098 U  | <0.0097 U  | <0.0097 U  |
| 2,4,6-Trichlorophenol                          | 88-06-2    | NS             | 0.65         | 490             | NS            | ug/l        | <0.047 U   | <0.049 U   | <0.01 U    | <0.0098 U  | <0.0097 U  | <0.0097 U  |
| 2,4-Dichlorophenol                             | 120-83-2   | NS             | 46           | 180             | NS            | ug/l        | <0.047 U   | <0.049 U   | <0.01 U    | <0.0098 U  | <0.0097 U  | <0.0097 U  |
| 2,4-Dimethylphenol                             | 105-67-9   | NS             | 100          | 530             | NS            | ug/l        | <4.7 U     | <4.9 U     | <1 U       | <0.98 U    | <0.97 U    | <0.97 U    |
| 2,4-Dinitrophenol                              | 51-28-5    | NS             | 39           | 75              | NS            | ug/l        | <4.7 U     | <4.9 U     | <1 U       | <0.98 U    | <0.97 U    | <0.97 U    |
| 2,4-Dinitrotoluene                             | 121-14-2   | NS             | 0.24         | 120             | NS            | ug/l        | <0.24 U    | <0.24 U    | <0.051 U   | <0.049 U   | <0.048 U   | <0.048 U   |
| 2,6-Dichlorophenol                             | 87-65-0    | NS             | NS           | NS              | NS            | ug/l        | <0.24 U    | <0.24 U    | <0.051 U   | <0.049 U   | <0.048 U   | <0.048 U   |
| 2,6-Dinitrotoluene                             | 606-20-2   | NS             | NS           | NS              | NS            | ug/l        | <0.24 U    | <0.24 U    | <0.051 U   | <0.049 U   | <0.048 U   | <0.048 U   |
| 2-Chloronaphthalene                            | 91-58-7    | NS             | NS           | NS              | NS            | ug/l        | <4.7 U     | <4.9 U     | <1 U       | <0.98 U    | <0.97 U    | <0.97 U    |
| 2-Chlorophenol                                 | 95-57-8    | NS             | 91           | 440             | NS            | ug/l        | <0.24 U    | <0.24 U    | <0.051 U   | <0.049 U   | <0.048 U   | <0.048 U   |
| 2-Methylnaphthalene                            | 91-57-6    | NS             | 36           | 2.1             | NS            | ug/l        | <0.024 U   | <0.024 U   | <0.0051 U  | <0.0049 U  | <0.0048 U  | <0.0048 U  |
| 2-Methylphenol (o-Cresol)                      | 95-48-7    | NS             | NS           | NS              | NS            | ug/l        | <4.7 U     | <4.9 U     | <1 U       | <0.98 U    | <0.97 U    | <0.97 U    |
| 2-Nitroaniline                                 | 88-74-4    | NS             | NS           | NS              | NS            | ug/l        | <24 U      | <24 U      | <5.1 U     | <4.9 U     | <4.8 U     | <4.8 U     |
| 2-Nitrophenol                                  | 88-75-5    | NS             | NS           | NS              | NS            | ug/l        | <24 U      | <24 U      | <5.1 U     | <4.9 U     | <4.8 U     | <4.8 U     |
| 3 & 4 Methylphenol (m&p Cresol)                | 65794-96-9 | NS             | NS           | NS              | NS            | ug/l        | <4.7 U     | <4.9 U     | <1 U       | <0.98 U    | <0.97 U    | <0.97 U    |
| 3,3'-Dichlorobenzidine                         | 91-94-1    | NS             | 0.047        | 250             | NS            | ug/l        | <0.047 U   | <0.049 U   | <0.01 U    | <0.0098 U  | <0.0097 U  | <0.0097 U  |
| 3-Nitroaniline                                 | 99-09-2    | NS             | NS           | NS              | NS            | ug/l        | <24 U      | <24 U      | <5.1 U     | <4.9 U     | <4.8 U     | <4.8 U     |
| 4,6-Dinitro-2-Methylphenol                     | 534-52-1   | NS             | NS           | NS              | NS            | ug/l        | <24 U      | <24 U      | <5.1 U     | <4.9 U     | <4.8 U     | <4.8 U     |
| 4-Bromophenyl Phenyl Ether                     | 101-55-3   | NS             | NS           | NS              | NS            | ug/l        | <4.7 U     | <4.9 U     | <1 U       | <0.98 U    | <0.97 U    | <0.97 U    |
| 4-Chloro-3-Methylphenol                        | 59-50-7    | NS             | NS           | NS              | NS            | ug/l        | <4.7 U     | <4.9 U     | <1 U       | <0.98 U    | <0.97 U    | <0.97 U    |
| 4-Chloroaniline                                | 106-47-8   | NS             | 0.37         | 5               | NS            | ug/l        | <0.024 U   | <0.024 U   | <0.0051 U  | <0.0049 U  | <0.0048 U  | <0.0048 U  |
| 4-Chlorophenyl Phenyl Ether                    | 7005-72-3  | NS             | NS           | NS              | NS            | ug/l        | <4.7 U     | <4.9 U     | <1 U       | <0.98 U    | <0.97 U    | <0.97 U    |
| 4-Nitroaniline                                 | 100-01-6   | NS             | NS           | NS              | NS            | ug/l        | <24 U      | <24 U      | <5.1 U     | <4.9 U     | <4.8 U     | <4.8 U     |
| 4-Nitrophenol                                  | 100-02-7   | NS             | NS           | NS              | NS            | ug/l        | <24 U      | <24 U      | <5.1 U     | <4.9 U     | <4.8 U     | <4.8 U     |
| Acenaphthene                                   | 83-32-9    | NS             | 530          | 23              | NS            | ug/l        | <0.024 U   | <0.024 U   | <0.0051 U  | <0.0049 U  | <0.0048 U  | <0.0048 U  |
| Acenaphthylene                                 | 208-96-8   | NS             | NS           | NS              | NS            | ug/l        | <0.024 U   | <0.024 U   | <0.0051 U  | <0.0049 U  | <0.0048 U  | <0.0048 U  |
| Acetochlor                                     | 34256-82-1 | NS             | NS           | NS              | NS            | ug/l        | <4.7 U     | <4.9 U     | <1 U       | <0.98 U    | <0.97 U    | <0.97 U    |
| Anthracene                                     | 120-12-7   | NS             | 1800         | 0.73            | NS            | ug/l        | <0.024 U   | <0.024 U   | <0.0051 U  | <0.0049 U  | <0.0048 U  | <0.0048 U  |
| Benzidine                                      | 92-87-5    | NS             | NS           | NS              | NS            | ug/l        | <24 U      | <24 U      | <5.1 U     | <4.9 U     | <4.8 U     | <4.8 U     |
| Benzo(a)anthracene                             | 56-55-3    | NS             | 0.017        | 0.027           | 230           | ug/l        | <0.24 U    | <0.24 U    | <0.051 U   | <0.049 U   | <0.048 U   | <0.048 U   |
| Benzo(a)pyrene                                 | 50-32-8    | 0.2            | 0.007        | 0.014           | NS            | ug/l        | <0.024 U   | <0.024 U   | <0.0051 U  | <0.0049 U  | <0.0048 U  | <0.0048 U  |
| Benzo(b)fluoranthene                           | 205-99-2   | NS             | 0.25         | NS              | NS            | ug/l        | <0.047 U   | <0.049 U   | <0.01 U    | <0.0098 U  | <0.0097 U  | <0.0097 U  |
| Benzo(g,h,i)Perylene                           | 191-24-2   | NS             | NS           | NS              | NS            | ug/l        | <0.047 U   | <0.049 U   | <0.01 U    | <0.0098 U  | <0.0097 U  | <0.0097 U  |
| Benzo(k)fluoranthene                           | 207-08-9   | NS             | 2.5          | 3.7             | NS            | ug/l        | <0.047 U   | <0.049 U   | <0.01 U    | <0.0098 U  | <0.0097 U  | <0.0097 U  |
| Benzoic Acid                                   | 65-85-0    | NS             | NS           | NS              | NS            | ug/l        | <24 U      | <24 U      | <5.1 U     | <4.9 U     | <4.8 U     | <4.8 U     |
| Benzyl Alcohol                                 | 100-51-6   | NS             | NS           | NS              | NS            | ug/l        | <24 U      | <24 U      | <5.1 U     | <4.9 U     | <4.8 U     | <4.8 U     |
| Benzyl Butyl Phthalate                         | 85-68-7    | NS             | NS           | NS              | NS            | ug/l        | <1.2 U     | <1.2 U     | <0.26 U    | <0.24 U    | <0.24 U    | <0.24 U    |
| Biphenyl (Diphenyl)                            | 92-52-4    | NS             | 0.83         | 14              | 140           | ug/l        | <0.095 U   | <0.098 U   | <0.02 U    | <0.02 U    | <0.019 U   | <0.019 U   |
| Bis(2-chloroethoxy) methane                    | 111-91-1   | NS             | NS           | NS              | NS            | ug/l        | <4.7 U     | <4.9 U     | <1 U       | <0.98 U    | <0.97 U    | <0.97 U    |
| Bis(2-chloroethyl) ether (2-chloroethyl ether) | 111-44-4   | NS             | 0.0063       | 61              | 25            | ug/l        | <0.024 U   | <0.024 U   | <0.0051 U  | <0.0049 U  | <0.0048 U  | <0.0048 U  |
| Bis(2-chloroisopropyl) ether                   | 108-60-1   | NS             | 710          | 61              | NS            | ug/l        | <0.047 U   | <0.049 U   | <0.01 U    | <0.0098 U  | <0.0097 U  | <0.0097 U  |
| Bis(2-ethylhexyl) phthalate                    | 117-81-7   | 4              | 5.6          | 32              | NS            | ug/l        | <1.2 U     | <1.2 U     | <0.26 U    | <0.24 U    | <0.24 U    | <0.24 U    |
| Chrysene                                       | 218-01-9   | NS             | 25           | 0.35            | NS            | ug/l        | <0.024 U   | <0.024 U   | <0.0051 U  | <0.0049 U  | <0.0048 U  | <0.0048 U  |
| Dibenz(a,h)anthracene                          | 53-70-3    | NS             | 0.0061       | 7.5             | NS            | ug/l        | <0.047 U   | <0.049 U   | <0.01 U    | <0.0098 U  | <0.0097 U  | <0.0097 U  |
| Dibenzofuran                                   | 132-64-9   | NS             | NS           | NS              | NS            | ug/l        | <0.024 U   | <0.024 U   | <0.0051 U  | <0.0049 U  | <0.0048 U  | <0.0048 U  |
| Dibutyl phthalate                              | 84-74-2    | NS             | NS           | NS              | NS            | ug/l        | <1.2 U     | <1.2 U     | <0.26 U    | <0.24 U    | <0.24 U    | 0.49       |
| Diethyl phthalate                              | 84-66-2    | NS             | 15000        | 1.5             | NS            | ug/l        | 0.36       | <0.24 U    | 0.062      | 0.05       | <0.048 U   | 0.37       |
| Dimethyl phthalate                             | 131-11-3   | NS             | NS           | NS              | NS            | ug/l        | 0.16       | <0.049 U   | 0.018      | <0.0098 U  | <0.0097 U  | 0.018      |
| Diocetyl Adipate                               | 103-23-1   | NS             | NS           | NS              | NS            | ug/l        | <4.7 U     | <4.9 U     | <1 U       | <0.98 U    | <0.97 U    | <0.97 U    |
| Diocetyl phthalate                             | 117-84-0   | NS             | NS           | NS              | NS            | ug/l        | <12 U      | <12 U      | <2.6 U     | <2.4 U     | <2.4 U     | <2.4 U     |
| Fluoranthene                                   | 206-44-0   | NS             | 800          | 8.1             | NS            | ug/l        | <0.047 U   | <0.049 U   | <0.01 U    | <0.0098 U  | <0.0097 U  | <0.0097 U  |
| Fluorene                                       | 86-73-7    | NS             | 290          | 3.9             | NS            | ug/l        | <0.047 U   | <0.049 U   | <0.01 U    | <0.0098 U  | &lt        |            |

**Notes:**

Groundwater results were compared to San Francisco Bay RWQCB Groundwater Direct Exposure Human Health Risk Levels MCL (July 2025), San Francisco Bay RWQCB Groundwater Direct Exposure Human Health Risk Levels Tapwater, Lower of Cancer Risk and Noncancer Hazard Values (July 2025) ,San Francisco Bay RWQCB Aquatic Habitat Goal ESL - Fresh Water Ecotox (July 2025), and San Francisco Bay RWQCB Groundwater Vapor Intrusion Human Health Risk Levels - Commercial ESL, Lower of Cancer Risk and Noncancer Hazard Values (July 2025)

RWQCB - Regional Water Quality Control Board

ESL - Environmental Screening Level

EPA - Environmental Protection Agency

RSL - Regional Screening Level

MCL - Maximum Contaminant Level

CAS - Chemical Abstract Service

NS - No standard

ug/l - micrograms per liter

NA - Not Analyzed

RL - Reporting Limit

<RL - Not detected

**Qualifiers:**

U - The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.

B - The analyte was found in the associated analysis batch blank.

**Exceedance Summary:**

- 10 - Result exceeds Groundwater Direct Exposure ESL - MCL
- 10 - Result exceeds Groundwater Direct Exposure Tapwater ESL
- 10 - Result exceeds Aquatic Habitat Goal ESL - Fresh Water Ecotox
- 10 - Result exceeds Groundwater VI Commercial ESL

Table 3  
Summary of Soil Analytical Results - PFAS  
Northtown Campus  
San Jose, CA  
Langan Project No.: 770651908

| Analyte                                                         | CAS Number  | Soil Direct Exposure Commercial /Industrial ESL | Soil Direct Exposure Construction Worker: Any Land Use | EPA RSL Industrial Soil | Location     | IDW-1      | SB-01      | SB-02      | SB-03      | SB-04      | SB-04      | SB-04      | SB-05      | SB-06      | SB-07      | SB-08      | SB-08      | SB-09      |
|-----------------------------------------------------------------|-------------|-------------------------------------------------|--------------------------------------------------------|-------------------------|--------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|                                                                 |             |                                                 |                                                        |                         | Sample Name  | IDW-1      | SB-01-9.5  | SB-02-10   | SB-03-10   | SB-04-5    | SB-04-8.5  | SB-04-10   | SB-05-5    | SB-06-5    | SB-07-5    | SB-08-3    | SB-08-5    | SB-09-5    |
|                                                                 |             |                                                 |                                                        |                         | Sample Date  | 07/16/2025 | 07/15/2025 | 07/15/2025 | 07/15/2025 | 07/16/2025 | 07/16/2025 | 07/16/2025 | 07/16/2025 | 07/16/2025 | 07/16/2025 | 07/16/2025 | 07/16/2025 | 07/16/2025 |
|                                                                 |             |                                                 |                                                        |                         | Sample Depth | -          | 9.5        | 10         | 10         | 5          | 8.5        | 10         | 5          | 5          | 5          | 3          | 5          | 5          |
|                                                                 |             |                                                 |                                                        |                         | Unit         | Result     | Result     | Result     | Result     | Result     | Result     | Result     | Result     | Result     | Result     | Result     | Result     |            |
| Per- and Polyfluoroalkyl Substances                             |             |                                                 |                                                        |                         |              |            |            |            |            |            |            |            |            |            |            |            |            |            |
| 11-Chloroeicosafuoro-3-Oxaundecane-1-Sulfonic Acid (11CI-PF3OI) | 763051-92-9 | NS                                              | NS                                                     | NS                      | mg/kg        | <0.00025 U | <0.00025 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00023 U | <0.00025 U | <0.00023 U | <0.00026 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00026 U |
| 1H,1H,2H,2H-Perfluorodecane Sulfonic Acid (8:2FTS)              | 39108-34-4  | NS                                              | NS                                                     | NS                      | mg/kg        | <0.00025 U | <0.00025 U | <0.00024 U | <0.00048 U | <0.00025 U | <0.00023 U | <0.00025 U | <0.00023 U | <0.00026 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00026 U |
| 1h,1h,2h,2h-Perfluorododecanesulfonic Acid (10:2 FTS)           | 120226-60-0 | NS                                              | NS                                                     | NS                      | mg/kg        | <0.00023 U | <0.00024 U | <0.00023 U | <0.00047 U | <0.00024 U | <0.00022 U | <0.00023 U | <0.00022 U | <0.00024 U | <0.00023 U | <0.00023 U | <0.00024 U | <0.00025 U |
| 1H,1H,2H,2H-Perfluorohexane Sulfonic Acid (4:2 FTS)             | 757124-72-4 | NS                                              | NS                                                     | NS                      | mg/kg        | <0.00025 U | <0.00025 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00023 U | <0.00025 U | <0.00023 U | <0.00026 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00026 U |
| 1H,1H,2H,2H-Perfluorooctane Sulfonic Acid (6:2 FTS)             | 27619-97-2  | NS                                              | NS                                                     | NS                      | mg/kg        | <0.00025 U | <0.00025 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00023 U | <0.00025 U | <0.00023 U | <0.00026 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00026 U |
| 2H,2H,3H,3H-Perfluorooctanoic Acid (5:3 FTCA)                   | 914637-49-3 | NS                                              | NS                                                     | NS                      | mg/kg        | <0.00025 U | <0.00025 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00023 U | <0.00025 U | <0.00023 U | <0.00026 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00026 U |
| 3-Perfluoroheptyl Propanoic Acid (7:3 FTCA)                     | 812-70-4    | NS                                              | NS                                                     | NS                      | mg/kg        | <0.00025 U | <0.00025 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00023 U | <0.00025 U | <0.00023 U | <0.00026 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00026 U |
| 3-Perfluoropropyl Propanoic Acid (3:3 FTCA)                     | 356-02-5    | NS                                              | NS                                                     | NS                      | mg/kg        | <0.00025 U | <0.00025 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00023 U | <0.00025 U | <0.00023 U | <0.00026 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00026 U |
| 4,8-Dioxa-3H-perfluorononanoic Acid (ADONA)                     | 919005-14-4 | NS                                              | NS                                                     | NS                      | mg/kg        | <0.00025 U | <0.00025 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00023 U | <0.00025 U | <0.00023 U | <0.00026 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00026 U |
| 9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid (9CI-PF3ONS) | 756426-58-1 | NS                                              | NS                                                     | NS                      | mg/kg        | <0.00025 U | <0.00025 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00023 U | <0.00025 U | <0.00023 U | <0.00026 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00026 U |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)                  | 13252-13-6  | 3.5                                             | 1.1                                                    | 3.5                     | mg/kg        | <0.00025 U | <0.00025 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00023 U | <0.00025 U | <0.00023 U | <0.00026 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00026 U |
| N-ethyl Perfluorooctanesulfonamide (NEtFOSA)                    | 4151-50-2   | NS                                              | NS                                                     | NS                      | mg/kg        | <0.00025 U | <0.00025 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00023 U | <0.00025 U | <0.00023 U | <0.00026 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00026 U |
| N-ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)        | 2991-50-6   | NS                                              | NS                                                     | NS                      | mg/kg        | <0.00025 U | <0.00025 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00023 U | <0.00025 U | <0.00023 U | <0.00026 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00026 U |
| N-ethyl Perfluorooctanesulfonamidoethanol (NEtFOSE)             | 1691-99-2   | NS                                              | NS                                                     | NS                      | mg/kg        | <0.00025 U | <0.00025 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00023 U | <0.00025 U | <0.00023 U | <0.00026 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00026 U |
| N-methyl Perfluorooctanesulfonamide (NMeFOSA)                   | 31506-32-8  | NS                                              | NS                                                     | NS                      | mg/kg        | <0.00025 U | <0.00025 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00023 U | <0.00025 U | <0.00023 U | <0.00026 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00026 U |
| N-methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)       | 2355-31-9   | NS                                              | NS                                                     | NS                      | mg/kg        | <0.00025 U | <0.00025 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00023 U | <0.00025 U | <0.00023 U | <0.00026 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00026 U |
| N-methyl Perfluorooctanesulfonamidoethanol (NMeFOSE)            | 24448-09-7  | NS                                              | NS                                                     | NS                      | mg/kg        | <0.00025 U | <0.00025 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00023 U | <0.00025 U | <0.00023 U | <0.00026 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00026 U |
| Nonafluoro-3,6-dioxaheptanoic Acid (NFDHA)                      | 151772-58-6 | NS                                              | NS                                                     | NS                      | mg/kg        | <0.00025 U | <0.00025 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00023 U | <0.00025 U | <0.00023 U | <0.00026 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00026 U |
| Perfluoro(2-ethoxyethane)sulfonic Acid (PFEESA)                 | 113507-82-7 | NS                                              | NS                                                     | NS                      | mg/kg        | <0.00025 U | <0.00025 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00023 U | <0.00025 U | <0.00023 U | <0.00026 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00026 U |
| Perfluoro-3-methoxypropanoic acid (PFMPA)                       | 377-73-1    | NS                                              | NS                                                     | NS                      | mg/kg        | <0.00025 U | <0.00025 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00023 U | <0.00025 U | <0.00023 U | <0.00026 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00026 U |
| Perfluoro-4-methoxybutanoic acid (PFMBA)                        | 863090-89-5 | NS                                              | NS                                                     | NS                      | mg/kg        | <0.00025 U | <0.00025 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00023 U | <0.00025 U | <0.00023 U | <0.00026 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00026 U |
| Perfluorobutanesulfonic Acid (PFBS)                             | 375-73-5    | 250                                             | 80                                                     | 250                     | mg/kg        | <0.00025 U | <0.00025 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00023 U | <0.00025 U | <0.00023 U | <0.00026 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00026 U |
| Perfluorobutanoic acid (PFBA)                                   | 375-22-4    | 1200                                            | 350                                                    | 1200                    | mg/kg        | <0.00025 U | <0.00025 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00023 U | <0.00025 U | <0.00023 U | <0.00026 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00026 U |
| Perfluorodecanesulfonic Acid (PFDS)                             | 335-77-3    | NS                                              | NS                                                     | NS                      | mg/kg        | <0.00025 U | <0.00025 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00023 U | <0.00025 U | <0.00023 U | <0.00026 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00026 U |
| Perfluorodecanoic Acid (PFDA)                                   | 335-76-2    | 0.0016                                          | 0.00054                                                | 0.0016                  | mg/kg        | <0.00025 U | <0.00025 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00023 U | <0.00025 U | <0.00023 U | <0.00026 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00026 U |
| Perfluorododecanesulfonic Acid (PFDoS)                          | 79780-39-5  | NS                                              | NS                                                     | NS                      | mg/kg        | <0.00025 U | <0.00025 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00023 U | <0.00025 U | <0.00023 U | <0.00026 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00026 U |
| Perfluorododecanoic Acid (PFDoA)                                | 307-55-1    | 41                                              | 13                                                     | 41                      | mg/kg        | <0.00025 U | <0.00025 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00023 U | <0.00025 U | <0.00023 U | <0.00026 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00026 U |
| Perfluoroheptanesulfonic Acid (PFHpS)                           | 375-92-8    | NS                                              | NS                                                     | NS                      | mg/kg        | <0.00025 U | <0.00025 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00023 U | <0.00025 U | <0.00023 U | <0.00026 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00026 U |
| Perfluoroheptanoic acid (PFHpA)                                 | 375-85-9    | NS                                              | NS                                                     | NS                      | mg/kg        | <0.00025 U | <0.00025 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00023 U | <0.00025 U | <0.00023 U | <0.00026 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00026 U |
| Perfluorohexadecanoic Acid (PFHxDA)                             | 67905-19-5  | NS                                              | NS                                                     | NS                      | mg/kg        | <0.00025 U | <0.00025 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00023 U | <0.00025 U | <0.00023 U | <0.00026 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00026 U |
| Perfluorohexanesulfonic Acid (PFHxS)                            | 355-46-4    | 16                                              | 5.4                                                    | 16                      | mg/kg        | <0.00025 U | <0.00025 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00023 U | <0.00025 U | <0.00023 U | <0.00026 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00026 U |
| Perfluorohexanoic Acid (PFHxA)                                  | 307-24-4    | 410                                             | 130                                                    | 410                     | mg/kg        | <0.00025 U | <0.00025 U | <0.00024 U | <0.00024 U | <0.00025 U | <0.00023 U | <0.00025 U | <0.00023 U | <0.00026 U | <0.00024 U | <0.00024 U |            |            |

Notes:

PFAS Soil results were compared to San Francisco Bay RWQCB Soil Direct Exposure Human Health Risk Levels - Commercial/Industrial and Construction Worker: Any Land Use, Lower of Cancer Risk and Noncancer Hazard Values (July 2025) and EPA RSL Industrial Soil criteria (November 2024)

RWQCB - Regional Water Quality Control Board

ESL - Environmental Screening Level

EPA - Environmental Protection Agency

RSL - Regional Screening Level

CAS - Chemical Abstract Service

NS - No standard

mg/kg - Milligrams per kilogram

NA - Not Analyzed

RL - Reporting Limit

<RL - Not detected

Qualifiers:

U - The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.

Exceedance Summary:

- 10 - Result exceeds Soil Direct Exposure Commercial/Industrial ESL
- 10 - Result exceeds Soil Direct Exposure Construction Worker: Any Land Use
- 10 - Result exceeds EPA RSL Industrial Soil



Page 1 of 3

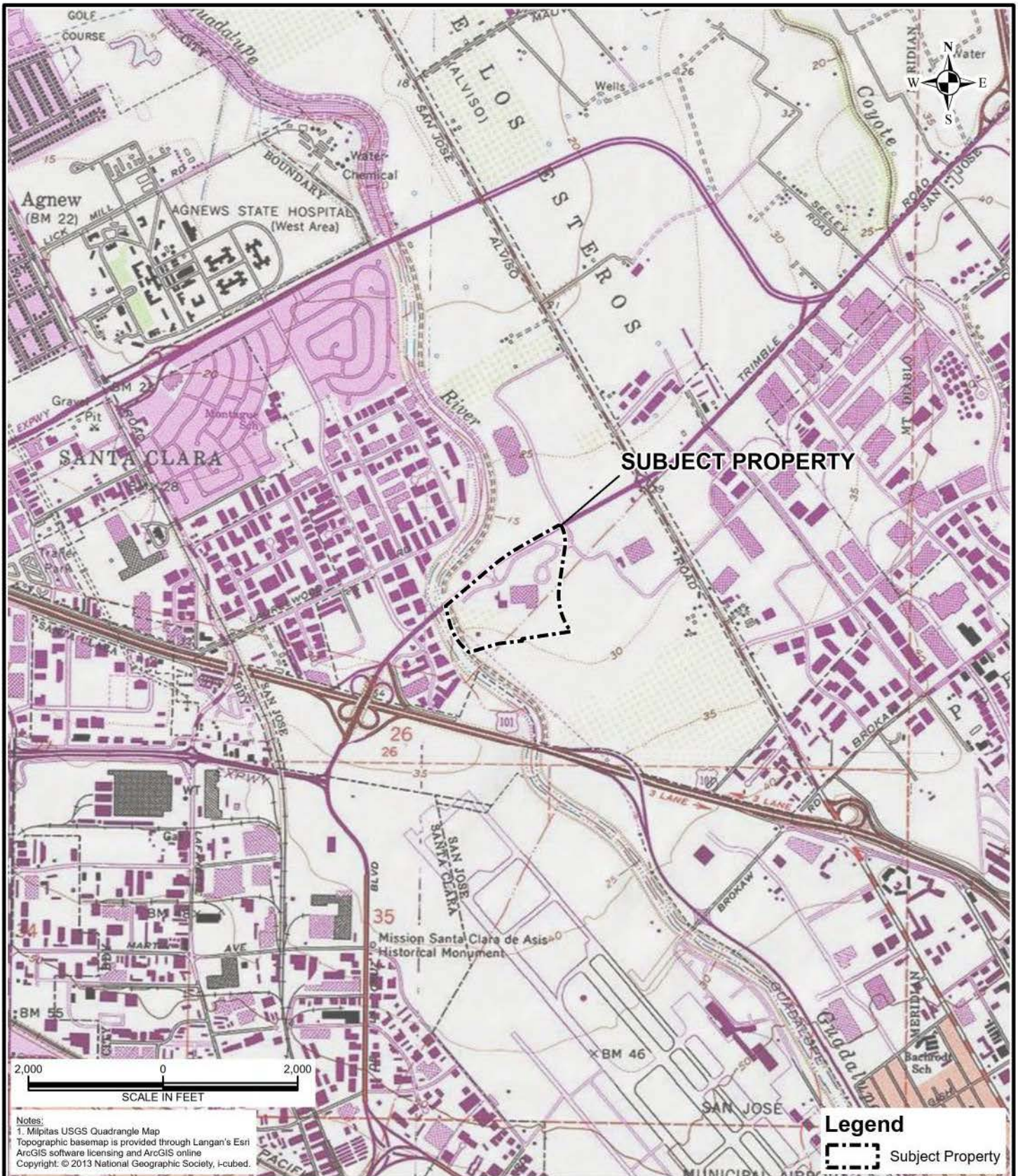
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## FIGURES





**LANGAN**

Langan CA, Inc.

1 Almaden Boulevard, Suite 590  
 San Jose, CA 95113

T: 408.283.3600 F: 408.283.3601  
 www.langan.com

Project

## NORTHTOWN CAMPUS

350 AND 370 WEST TRIMBLE ROAD  
 SAN JOSE

SANTA CLARA  
 COUNTY

CA

Figure Title

## SUBJECT PROPERTY LOCATION MAP

Project No.

770651908

Date

7/22/2025

Scale

1" = 2,000 feet

Drawn By

OG

Figure

1





**Legend**

- Soil Boring
- Soil and Groundwater Boring
- Subject Property

Notes:

1. Imagery provided through Langan's subscription to Nearmap.com. Flown on 02/10/2025.

2. All locations of site reconnaissance observations are approximate.

**LANGAN**

Langan CA, Inc.

1 Almaden Boulevard, Suite 590  
San Jose, CA 95113

T: 408.283.3600 F: 408.283.3601 www.langan.com

Project

**NORTHTOWN  
CAMPUS**

350 AND 370 WEST TRIMBLE ROAD  
SAN JOSE

SANTA CLARA COUNTY CA

Figure Title

**BORING LOCATION**

|                          |                            |
|--------------------------|----------------------------|
| Project No.<br>770651908 | Figure No.<br><br><b>2</b> |
| Date<br>8/7/2025         |                            |
| Scale<br>1"=250 feet     |                            |
| Drawn By<br>CV           |                            |





|             |            |
|-------------|------------|
| Location    | SB-03      |
| Sample Name | SB-03-GW   |
| Sample Date | 07/15/2025 |
| PFAS        |            |
| PFHxS       | 0.0084     |
| PFOS        | 0.051      |

|             |            |
|-------------|------------|
| Location    | SB-01      |
| Sample Name | SB-01-GW   |
| Sample Date | 07/15/2025 |
| PFAS        |            |
| PFHxS       | <0.0018 U  |
| PFOS        | <0.0018 U  |

|             |            |
|-------------|------------|
| Location    | SB-04      |
| Sample Name | SB-04-GW   |
| Sample Date | 07/16/2025 |
| PFAS        |            |
| PFHxS       | 0.0085     |
| PFOS        | <0.0017 U  |

|             |            |
|-------------|------------|
| Location    | SB-02      |
| Sample Name | SB-02-GW   |
| Sample Date | 07/15/2025 |
| PFAS        |            |
| PFHxS       | <0.0018 U  |
| PFOS        | <0.0018 U  |

|             |            |
|-------------|------------|
| Location    | SB-05      |
| Sample Name | SB-05-GW   |
| Sample Date | 07/16/2025 |
| PFAS        |            |
| PFHxS       | 0.004      |
| PFOS        | 0.016      |

| Analyte | Groundwater Direct Exposure<br>ESL - MCL | Groundwater Direct Exposure<br>Tapwater ESL | Aquatic Habitat<br>Goal ESL - Fresh<br>Water Ecotox | EPA RSL<br>Tapwater | EPA RSL<br>Groundwater<br>MCL |
|---------|------------------------------------------|---------------------------------------------|-----------------------------------------------------|---------------------|-------------------------------|
| PFAS    |                                          |                                             |                                                     |                     |                               |
| PFHxS   | NS                                       | 0.003                                       | 14                                                  | 0.39                | 0.01                          |
| PFOS    | 0.004                                    | 0.001                                       | 0.017                                               | 0.002               | 0.004                         |

**Exceedance Summary:**  
10 - Result exceeds Groundwater Direct Exposure ESL - MCL  
10 - Result exceeds Groundwater Direct Exposure Tapwater ESL  
10 - Result exceeds Aquatic Habitat Goal ESL - Fresh Water Ecotox  
10 - Result exceeds EPA RSL Tapwater  
10 - Result exceeds EPA RSL Groundwater MCL

**Legend**

- Soil Boring
- Soil and Groundwater Boring
- Subject Property

**Notes:**  
1. Imagery provided through Langan's subscription to Nearmap.com. Flown on 02/10/2025.  
2. All locations of site reconnaissance observations are approximate.  
3. Sample depth measured in feet.  
4. Analytes measured in microgram per liter (µg/L).  
5. ESL = Environmental Screening Level

250 0 250  
SCALE IN FEET

**LANGAN**  
Langan CA, Inc.  
1 Almaden Boulevard, Suite 590  
San Jose, CA 95113  
T: 408.283.3600 F: 408.283.3601 www.langan.com

Project  
**NORTHTOWN  
CAMPUS**  
350 AND 370 WEST TRIMBLE ROAD  
SAN JOSE  
SANTA CLARA COUNTY CA

Figure Title  
**PFAS EXCEEDANCES IN  
GROUNDWATER**

|                          |                        |
|--------------------------|------------------------|
| Project No.<br>770651908 | Figure No.<br><b>3</b> |
| Date<br>8/7/2025         |                        |
| Scale<br>1"=250 feet     |                        |
| Drawn By<br>CV           |                        |



| Analyte              | Groundwater Direct Exposure<br>ESL - MCL | Groundwater Direct Exposure<br>Tapwater ESL | Aquatic Habitat<br>Goal ESL -<br>Fresh Water<br>Ecotox | Groundwater VI<br>Commercial<br>ESL |
|----------------------|------------------------------------------|---------------------------------------------|--------------------------------------------------------|-------------------------------------|
| <b>VOCs</b>          |                                          |                                             |                                                        |                                     |
| Bromodichloromethane | 80                                       | 0.06                                        | 1100                                                   | 3.8                                 |
| Chloroform           | 80                                       | 0.22                                        | 620                                                    | 3.6                                 |
| Dibromochloromethane | 80                                       | 0.1                                         | 1100                                                   | NS                                  |
| <b>Metals</b>        |                                          |                                             |                                                        |                                     |
| Arsenic              | 10                                       | 0.0024                                      | 150                                                    | NS                                  |
| Barium               | 1000                                     | 2000                                        | NS                                                     | NS                                  |
| Beryllium            | 4                                        | 1                                           | 2.7                                                    | NS                                  |
| Chromium, Total      | 50                                       | NS                                          | 180                                                    | NS                                  |
| Cobalt               | NS                                       | 6                                           | 3                                                      | NS                                  |
| Copper               | 1000                                     | 300                                         | 9                                                      | NS                                  |
| Lead                 | 15                                       | 0.2                                         | 2.5                                                    | NS                                  |
| Mercury              | 2                                        | 0.061                                       | 0.025                                                  | 0.37                                |
| Nickel               | 100                                      | 12                                          | 52                                                     | NS                                  |
| Selenium             | 50                                       | 30                                          | 5                                                      | NS                                  |
| Vanadium             | NS                                       | 50                                          | 19                                                     | NS                                  |
| Zinc                 | 5000                                     | 6000                                        | 120                                                    | NS                                  |

**Exceedance Summary:**

**10** - Result exceeds Groundwater Direct Exposure ESL - MCL

**10** - Result exceeds Groundwater Direct Exposure Tapwater ESL

**10** - Result exceeds Aquatic Habitat Goal ESL - Fresh Water Ecotox

**10** - Result exceeds Groundwater VI Commercial ESL

| Location        | SB-03      |
|-----------------|------------|
| Sample Name     | SB-03-GW   |
| Sample Date     | 07/15/2025 |
| <b>Metals</b>   |            |
| Arsenic         | 55         |
| Barium          | 1,200      |
| Beryllium       | 3          |
| Chromium, Total | 170        |
| Cobalt          | 59         |
| Copper          | 130        |
| Lead            | 40         |
| Mercury         | 1.8        |
| Nickel          | 250        |
| Selenium        | 9.1        |
| Vanadium        | 180        |
| Zinc            | 330        |

| Location        | SB-04      |
|-----------------|------------|
| Sample Name     | SB-04-GW   |
| Sample Date     | 07/16/2025 |
| <b>Metals</b>   |            |
| Arsenic         | 29         |
| Barium          | 260        |
| Beryllium       | <2.5 U     |
| Chromium, Total | 78         |
| Cobalt          | 19         |
| Copper          | 41         |
| Lead            | 20         |
| Mercury         | 2.4        |
| Nickel          | 88         |
| Selenium        | 12         |
| Vanadium        | 61         |
| Zinc            | 74 B       |

| Location        | SB-05      |
|-----------------|------------|
| Sample Name     | SB-05-GW   |
| Sample Date     | 07/16/2025 |
| <b>Metals</b>   |            |
| Arsenic         | 19         |
| Barium          | 850        |
| Beryllium       | 2.6        |
| Chromium, Total | 270        |
| Cobalt          | 53         |
| Copper          | 150        |
| Lead            | 70         |
| Mercury         | 2.7        |
| Nickel          | 350        |
| Selenium        | 15         |
| Vanadium        | 240        |
| Zinc            | 280        |

| Location        | SB-01      |
|-----------------|------------|
| Sample Name     | SB-01-GW   |
| Sample Date     | 07/15/2025 |
| <b>Metals</b>   |            |
| Arsenic         | 41         |
| Barium          | 1,300      |
| Beryllium       | 2.8        |
| Chromium, Total | 200        |
| Cobalt          | 45         |
| Copper          | 140        |
| Lead            | 33         |
| Mercury         | 2          |
| Nickel          | 280        |
| Selenium        | 7.5        |
| Vanadium        | 190        |
| Zinc            | 310        |

| Location        | SB-02      |
|-----------------|------------|
| Sample Name     | SB-02-GW   |
| Sample Date     | 07/15/2025 |
| <b>Metals</b>   |            |
| Arsenic         | 26         |
| Barium          | 500        |
| Beryllium       | <2.5 U     |
| Chromium, Total | 210        |
| Cobalt          | 61         |
| Copper          | 90         |
| Lead            | 15         |
| Mercury         | 0.39       |
| Nickel          | 300        |
| Selenium        | 13         |
| Vanadium        | 160        |
| Zinc            | 170        |

Legend

 Soil Boring

 Soil and Groundwater Boring

 Subject Property

Notes:

1. Imagery provided through Langan's subscription to Nearmap.com. Flown on 02/10/2025.

2. All locations of site reconnaissance observations are approximate.

3. Sample depth measured in feet.

4. Analytes measured in microgram per liter (µg/L).

5. ESL = Environmental Screening Level

2500250

SCALE IN FEET

LANGAN

Langan CA, Inc.

1 Almaden Boulevard, Suite 590  
San Jose, CA 95113

T: 408.283.3600 F: 408.283.3601 www.langan.com

Project

NORTHTOWN  
CAMPUS

350 AND 370 WEST TRIMBLE ROAD  
SAN JOSE

SANTA CLARA COUNTY CA

Figure Title

METALS EXCEEDANCES IN  
GROUNDWATER

Project No.  
770651908

Date  
8/7/2025

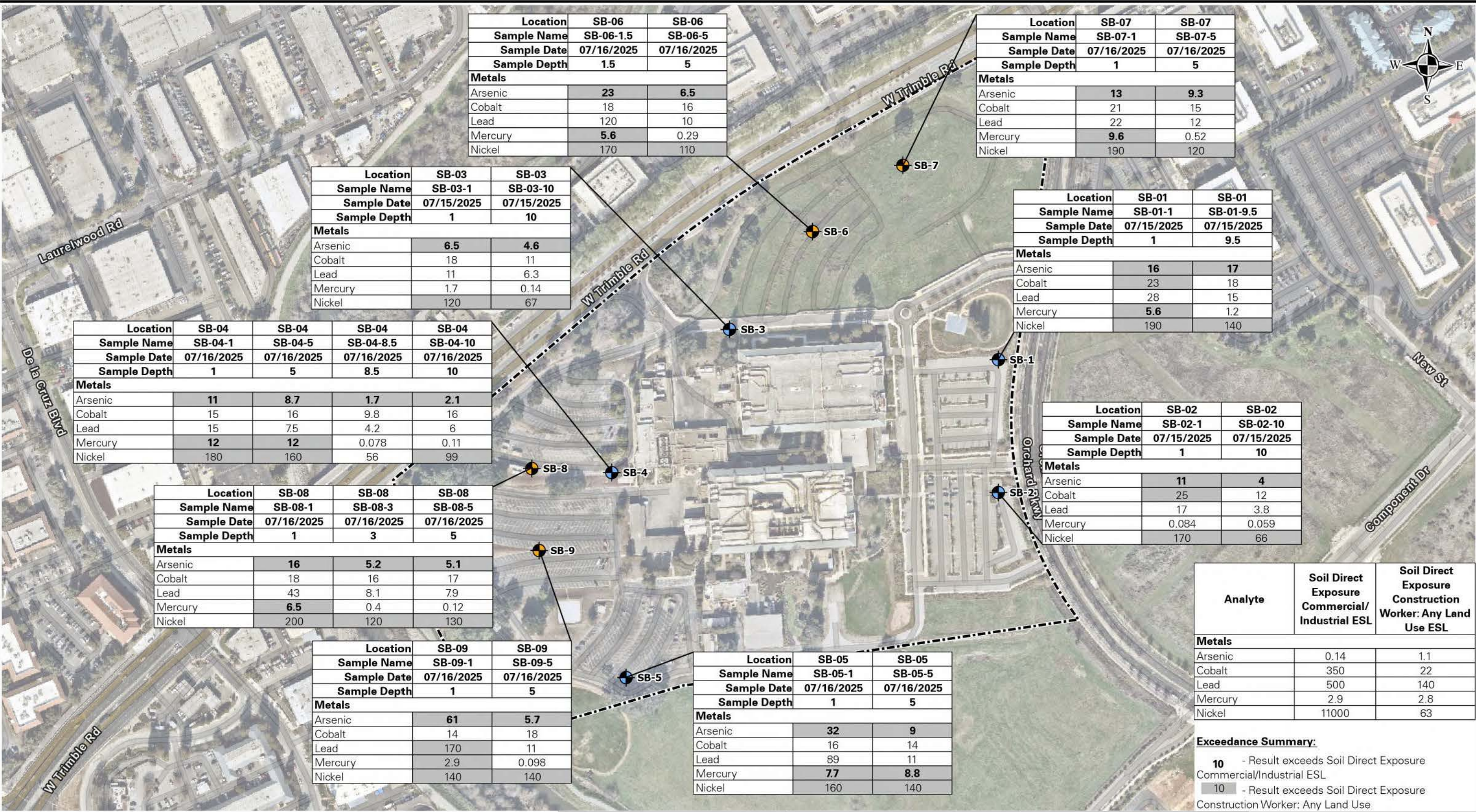
Scale  
1"=250 feet

Drawn By  
CV

Figure No.

4





|              |            |            |
|--------------|------------|------------|
| Location     | SB-06      | SB-06      |
| Sample Name  | SB-06-1.5  | SB-06-5    |
| Sample Date  | 07/16/2025 | 07/16/2025 |
| Sample Depth | 1.5        | 5          |
| Metals       |            |            |
| Arsenic      | 23         | 6.5        |
| Cobalt       | 18         | 16         |
| Lead         | 120        | 10         |
| Mercury      | 5.6        | 0.29       |
| Nickel       | 170        | 110        |

|              |            |            |
|--------------|------------|------------|
| Location     | SB-07      | SB-07      |
| Sample Name  | SB-07-1    | SB-07-5    |
| Sample Date  | 07/16/2025 | 07/16/2025 |
| Sample Depth | 1          | 5          |
| Metals       |            |            |
| Arsenic      | 13         | 9.3        |
| Cobalt       | 21         | 15         |
| Lead         | 22         | 12         |
| Mercury      | 9.6        | 0.52       |
| Nickel       | 190        | 120        |

|              |            |            |
|--------------|------------|------------|
| Location     | SB-03      | SB-03      |
| Sample Name  | SB-03-1    | SB-03-10   |
| Sample Date  | 07/15/2025 | 07/15/2025 |
| Sample Depth | 1          | 10         |
| Metals       |            |            |
| Arsenic      | 6.5        | 4.6        |
| Cobalt       | 18         | 11         |
| Lead         | 11         | 6.3        |
| Mercury      | 1.7        | 0.14       |
| Nickel       | 120        | 67         |

|              |            |            |            |            |
|--------------|------------|------------|------------|------------|
| Location     | SB-04      | SB-04      | SB-04      | SB-04      |
| Sample Name  | SB-04-1    | SB-04-5    | SB-04-8.5  | SB-04-10   |
| Sample Date  | 07/16/2025 | 07/16/2025 | 07/16/2025 | 07/16/2025 |
| Sample Depth | 1          | 5          | 8.5        | 10         |
| Metals       |            |            |            |            |
| Arsenic      | 11         | 8.7        | 1.7        | 2.1        |
| Cobalt       | 15         | 16         | 9.8        | 16         |
| Lead         | 15         | 7.5        | 4.2        | 6          |
| Mercury      | 12         | 12         | 0.078      | 0.11       |
| Nickel       | 180        | 160        | 56         | 99         |

|              |            |            |
|--------------|------------|------------|
| Location     | SB-01      | SB-01      |
| Sample Name  | SB-01-1    | SB-01-9.5  |
| Sample Date  | 07/15/2025 | 07/15/2025 |
| Sample Depth | 1          | 9.5        |
| Metals       |            |            |
| Arsenic      | 16         | 17         |
| Cobalt       | 23         | 18         |
| Lead         | 28         | 15         |
| Mercury      | 5.6        | 1.2        |
| Nickel       | 190        | 140        |

|              |            |            |
|--------------|------------|------------|
| Location     | SB-02      | SB-02      |
| Sample Name  | SB-02-1    | SB-02-10   |
| Sample Date  | 07/15/2025 | 07/15/2025 |
| Sample Depth | 1          | 10         |
| Metals       |            |            |
| Arsenic      | 11         | 4          |
| Cobalt       | 25         | 12         |
| Lead         | 17         | 3.8        |
| Mercury      | 0.084      | 0.059      |
| Nickel       | 170        | 66         |

|              |            |            |            |
|--------------|------------|------------|------------|
| Location     | SB-08      | SB-08      | SB-08      |
| Sample Name  | SB-08-1    | SB-08-3    | SB-08-5    |
| Sample Date  | 07/16/2025 | 07/16/2025 | 07/16/2025 |
| Sample Depth | 1          | 3          | 5          |
| Metals       |            |            |            |
| Arsenic      | 16         | 5.2        | 5.1        |
| Cobalt       | 18         | 16         | 17         |
| Lead         | 43         | 8.1        | 7.9        |
| Mercury      | 6.5        | 0.4        | 0.12       |
| Nickel       | 200        | 120        | 130        |

|              |            |            |
|--------------|------------|------------|
| Location     | SB-09      | SB-09      |
| Sample Name  | SB-09-1    | SB-09-5    |
| Sample Date  | 07/16/2025 | 07/16/2025 |
| Sample Depth | 1          | 5          |
| Metals       |            |            |
| Arsenic      | 61         | 5.7        |
| Cobalt       | 14         | 18         |
| Lead         | 170        | 11         |
| Mercury      | 2.9        | 0.098      |
| Nickel       | 140        | 140        |

|              |            |            |
|--------------|------------|------------|
| Location     | SB-05      | SB-05      |
| Sample Name  | SB-05-1    | SB-05-5    |
| Sample Date  | 07/16/2025 | 07/16/2025 |
| Sample Depth | 1          | 5          |
| Metals       |            |            |
| Arsenic      | 32         | 9          |
| Cobalt       | 16         | 14         |
| Lead         | 89         | 11         |
| Mercury      | 7.7        | 8.8        |
| Nickel       | 160        | 140        |

| Analyte | Soil Direct Exposure Commercial/Industrial ESL | Soil Direct Exposure Construction Worker: Any Land Use ESL |
|---------|------------------------------------------------|------------------------------------------------------------|
| Metals  |                                                |                                                            |
| Arsenic | 0.14                                           | 1.1                                                        |
| Cobalt  | 350                                            | 22                                                         |
| Lead    | 500                                            | 140                                                        |
| Mercury | 2.9                                            | 2.8                                                        |
| Nickel  | 11000                                          | 63                                                         |

**Exceedance Summary:**

**10** - Result exceeds Soil Direct Exposure Commercial/Industrial ESL

**10** - Result exceeds Soil Direct Exposure Construction Worker: Any Land Use

**Legend**

- Soil Boring
- Soil and Groundwater Boring
- Subject Property

**Notes:**

- Imagery provided through Langan's subscription to Nearmap.com. Flown on 02/10/2025.
- All locations of site reconnaissance observations are approximate.
- Sample depth measured in feet.
- Analytes measured milligram per kilogram (mg/kg).
- ESL = Environmental Screening Level

**SCALE IN FEET**

250 0 250

**LANGAN**

Langan CA, Inc.

1 Almaden Boulevard, Suite 590  
San Jose, CA 95113

T: 408.283.3600 F: 408.283.3601 www.langan.com

Project

**NORTHTOWN CAMPUS**

350 AND 370 WEST TRIMBLE ROAD  
SAN JOSE

SANTA CLARA COUNTY CA

Figure Title

**METALS EXCEEDANCES IN SOIL**

Project No.  
770651908

Date  
8/7/2025

Scale  
1"=250 feet

Drawn By  
CV

Figure No.

**5**



**APPENDIX A**  
**URS PHASE II ESA FIGURES AND TABLES**



## **Figure 2 - Site Layout Map**

J:\Project\U14966617 Soil and GW Invest- Phillips\Date-Tech\T1\fig2.ai



LEGEND:

--- Property Boundary

0 400 800

APPROXIMATE SCALE IN FEET

AERIAL SOURCE:  
Bing Maps

**PHILIPS LUMILEDS**

FIGURE 2  
SITE LAYOUT MAP  
350 AND 370 WEST TRIMBLE ROAD  
SAN JOSE, CALIFORNIA

JOB NO. 14966617

**URS**

## **Figure 3 - Soil and Groundwater Sampling Locations in Process Areas**



J:\Project\U14966617 Soil and GW Invest- Phillips\Date-Tech\T1\fig3.ai



LEGEND:

- Property Boundary
- ⊕ Phase II Sampling Location

0 300 600

APPROXIMATE SCALE IN FEET

AERIAL SOURCE:  
Bing Maps

**PHILIPS LUMILEDS**

FIGURE 3  
SOIL AND GROUNDWATER  
SAMPLING LOCATIONS IN PROCESS AREAS  
350 AND 370 WEST TRIMBLE ROAD  
SAN JOSE, CALIFORNIA

JOB NO. 14966617

**URS**

## **Figure 4 - Surface Soil Sampling Locations**



J:\Project\U14966617 Soil and GW Invest- Phillips\Date-Tech\T\fig4.ai



LEGEND:

- Property Boundary
- ⊕ Phase II Sampling Location

0 300 600

APPROXIMATE SCALE IN FEET

AERIAL SOURCE:  
Bing Maps

**PHILIPS LUMILEDS**

FIGURE 4  
SURFACE SOIL SAMPLING LOCATIONS  
350 AND 370 WEST TRIMBLE ROAD  
SAN JOSE, CALIFORNIA

JOB NO. 14966617

**URS**

## **Figure 5 - Perimeter Groundwater Sampling Locations**



J:\Project\U14966617 Soil and GW Invest- Phillips\Date-Tech\T\fig5.ai



LEGEND:

- - - Property Boundary
- + Phase II Sampling Location

0 300 600

APPROXIMATE SCALE IN FEET

AERIAL SOURCE:  
Bing Maps

## PHILIPS LUMILEDS

FIGURE 5  
PERIMETER GROUNDWATER  
SAMPLING LOCATIONS  
350 AND 370 WEST TRIMBLE ROAD  
SAN JOSE, CALIFORNIA

JOB NO. 14966617

**URS**

## **Table 1 - Summary of Phase II Environmental Site Investigation Sampling and Analysis**



Table 1. Summary of Phase II Environmental Site Investigation Sampling and Analysis  
Philips Lumileds, San Jose, California

| Investigation Area                                          | Sampling Location (see Figures 3, 4, 5)    | Sample Identification     |            |                                 | Soil Analysis                | Groundwater Analysis                                                                           |
|-------------------------------------------------------------|--------------------------------------------|---------------------------|------------|---------------------------------|------------------------------|------------------------------------------------------------------------------------------------|
|                                                             |                                            | Soil Samples              |            | Groundwater Sample              |                              |                                                                                                |
| Diesel UST Area                                             | PLSB-1                                     | PLSB-1-10                 | PLSB-1-15  | PLSB-1                          | BTEX, MTBE, TPH-DRO          | BTEX, MTBE, TPH-DRO                                                                            |
|                                                             | PLSB-2                                     | PLSB-2-8                  | PLSB-2-12  | PLSB-2                          |                              |                                                                                                |
|                                                             | PLSB-3                                     | PLSB-3-10                 | PLSB-3-24  | PLSB-3                          |                              |                                                                                                |
| Wastewater Treatment Discharge Area and other Process Areas | PLSB-4                                     | PLSB-4-10.5               | PLSB-4-17  | PLSB-4                          | VOCs, SVOCs, metals, cyanide | VOCs, SVOCs, dissolved metals, cyanide                                                         |
|                                                             | PLSB-5                                     | PLSB-5-10                 | PLSB-5-15  | PLSB-5                          |                              |                                                                                                |
|                                                             | PLSB-6                                     | PLSB-6-10                 | PLSB-6-15  | PLSB-6                          |                              |                                                                                                |
|                                                             | PLSB-7                                     | PLSB-7-8                  | PLSB-7-12  | PLSB-7                          |                              |                                                                                                |
|                                                             | PLSB-8                                     | PLSB-8-10                 | PLSB-8-15  | PLSB-8                          |                              |                                                                                                |
|                                                             | PLSB-9                                     | PLSB-9-10                 | PLSB-9-19  | PLSB-9                          |                              |                                                                                                |
|                                                             | PLSB-10                                    | PLSB-10-10                | PLSB-10-15 | PLSB-10                         |                              |                                                                                                |
| Solvent Unloading Area                                      | PLSB-11                                    | PLSB-11-5.5               | PLSB-11-10 | PLSB-11                         | VOCs, SVOCs, metals, cyanide | VOCs, SVOCs, dissolved metals, cyanide                                                         |
|                                                             | PLSB-12                                    | PLSB-12-4.5               | PLSB-12-10 | PLSB-12                         |                              |                                                                                                |
| Perimeter Groundwater Samples                               | PLPB-1                                     |                           |            | PLPB-1                          | Not Applicable               | VOCs, SVOCs, dissolved metals (3 samples analyzed for TPH-DRO, 3 samples analyzed for cyanide) |
|                                                             | PLPB-2                                     |                           |            | PLPB-2                          |                              |                                                                                                |
|                                                             | PLPB-3                                     |                           |            | PLPB-3                          |                              |                                                                                                |
|                                                             | PLPB-4                                     |                           |            | PLPB-4                          |                              |                                                                                                |
|                                                             | PLPB-5                                     |                           |            | PLPB-5                          |                              |                                                                                                |
|                                                             | PLPB-6                                     |                           |            | PLPB-6                          |                              |                                                                                                |
|                                                             | PLPB-7                                     |                           |            | PLPB-7                          |                              |                                                                                                |
|                                                             | PLPB-8                                     | No soil samples collected | PLPB-8     |                                 |                              |                                                                                                |
| Surface Soil Samples                                        | SSBG-1 through SSBG-3 (background samples) | SSBG-1, SSBG-2, SSBG-3    |            | No groundwater samples analyzed | Arsenic                      | Not Applicable                                                                                 |
|                                                             | SS-1 through SS-12 (downwind samples)      | SS-1 through SS-12        |            |                                 | Arsenic                      |                                                                                                |

Notes:

1. Soil sample IDs indicate soil boring number and depth. Example: PLSB-7-8 was collected from boring PLSB-7 at depth of 8 feet.
2. BTEX, MTBE, and VOC analysis conducted by U.S. EPA SW-846 Method 8260B.
3. SVOC analysis conducted by U.S. EPA SW846 Method 8270C.
4. Metals analysis conducted for antimony, arsenic, beryllium, cadmium, chromium, copper, lead, nickel selenium, silver, and zinc by US. EPA SW-846 Method 6010B and mercury by Method 7470A/7471A.
5. Cyanide analysis conducted by Standard Method 4500 CN E.d
6. TPH-DRO analysis conducted by U.S. EPA SW-846 Method 8015B.

## **Table 2 - Analytical Results for Soil Samples Collected from Soil Borings**

Table 2. Analytical Results for Soil Samples Collected from Soil Borings  
Phase II Environmental Site Investigation - Philips Lumileds, San Jose, CA  
Detected Analytes Only

| Analyte                        | Units | California ESL - updated 2013 | Sample ID and Depth (ft) |           |          |           |           |           |              |           |           |           |           |           |          |
|--------------------------------|-------|-------------------------------|--------------------------|-----------|----------|-----------|-----------|-----------|--------------|-----------|-----------|-----------|-----------|-----------|----------|
|                                |       |                               | PLSB-1 10                | PLSB-1 15 | PLSB-2 8 | PLSB-2 12 | PLSB-3 10 | PLSB-3 24 | PLSB-4 10,5  | PLSB-4 17 | PLSB-5 10 | PLSB-5 15 | PLSB-6 10 | PLSB-6 15 | PLSB-7 8 |
| Volatile Organic Compounds     | ug/kg | Not applicable                | Not Analyzed             |           |          |           |           |           | ND           | ND        | ND        | ND        | ND        | ND        | ND       |
| BTEX Compounds + MTBE          | ug/kg | Not applicable                | ND                       | ND        | ND       | ND        | ND        | ND        | Not Analyzed |           |           |           |           |           |          |
| Semivolatile Organic Compounds | mg/kg | Not applicable                | Not Analyzed             |           |          |           |           |           | ND           | ND        | ND        | ND        | ND        | ND        | ND       |
| Metals                         |       |                               |                          |           |          |           |           |           |              |           |           |           |           |           |          |
| Antimony                       | mg/kg | 40                            |                          |           |          |           |           |           | ND           | 0,52      | ND        | ND        | ND        | ND        | ND       |
| Arsenic                        | mg/kg | 1,6                           |                          |           |          |           |           |           | 4,3          | 3,2       | ND        | 1,8       | 2,3       | 6,6       | ND       |
| Beryllium                      | mg/kg | 8                             |                          |           |          |           |           |           | 0,43         | 0,2       | ND        | 0,075     | 0,39      | 0,38      | ND       |
| Cadmium                        | mg/kg | 12                            |                          |           |          |           |           |           | ND           | 0,16      | ND        | 0,17      | 0,13      | 0,21      | ND       |
| Chromium                       | mg/kg | 2500                          |                          |           |          |           |           |           | 84           | 36        | 55        | 38        | 34        | 26        | 46       |
| Copper                         | mg/kg | 230                           |                          |           |          |           |           |           | 33           | 20        | 27        | 16        | 18        | 20        | 18       |
| Lead                           | mg/kg | 320                           |                          |           |          |           |           |           | 7,5          | 3,8       | 4,8       | 3         | 4,1       | 5         | 2,7      |
| Nickel                         | mg/kg | 150                           |                          |           |          |           |           |           | 120          | 41        | 82        | 43        | 43        | 33        | 58       |
| Selenium                       | mg/kg | 10                            |                          |           |          |           |           |           | ND           | ND        | ND        | ND        | ND        | ND        | ND       |
| Silver                         | mg/kg | 40                            |                          |           |          |           |           |           | ND           | ND        | ND        | ND        | ND        | ND        | ND       |
| Zinc                           | mg/kg | 600                           |                          |           |          |           |           |           | 62           | 35        | 38        | 29        | 36        | 41        | 28       |
| Mercury                        | mg/kg | 10                            | Not Analyzed             |           |          |           |           |           | 0,097        | 0,037     | 0,097     | 0,035     | 0,22      | 0,21      | 0,067    |
| Cyanide                        | mg/kg | Not Applicable                | Not Analyzed             |           |          |           |           |           | ND           | ND        | ND        | ND        | ND        | ND        | ND       |
| TPH-DRO                        | mg/kg | 83                            | 1,2                      | 1,5       | ND       | 430       | 1100      | 2,1       | Not Analyzed |           |           |           |           |           |          |

- Notes:
1. ND = Not detected. The analyte was not detected in the sample.
  2. NA or Not Analyzed - Analysis was not conducted.
  3. California ESLs are from San Francisco Regional Water Quality Control Board, updated 2013.  
The most conservative ESLs from Tables A, B, C, and D are listed.
  4. mg/kg - milligrams per kilogram, or parts per million, ppm
  5. ug/kg - micrograms per kilogram, or parts per billion, ppb.
  6. Not Applicable - standards are not applicable because the analyte was not detected.
  7. Results in bold exceed the ESL.

Table 2. Analytical Results for Soil Samples Collected from Soil Borings  
Phase II Environmental Site Investigation - Philips Lumileds, San Jose, CA  
Detected Analytes Only

| Analyte                        | Units | California ESL - updated 2013 | Sample ID and Depth (ft) |              |              |              |              |               |               |                |               |                |               |
|--------------------------------|-------|-------------------------------|--------------------------|--------------|--------------|--------------|--------------|---------------|---------------|----------------|---------------|----------------|---------------|
|                                |       |                               | PLSB-7<br>12             | PLSB-8<br>10 | PLSB-8<br>15 | PLSB-9<br>10 | PLSB-9<br>19 | PLSB-10<br>10 | PLSB-10<br>15 | PLSB-11<br>5,5 | PLSB-11<br>10 | PLSB-12<br>4,5 | PLSB-12<br>10 |
| Volatile Organic Compounds     | ug/kg | Not applicable                | ND                       | ND           | ND           | ND           | ND           | ND            | ND            | ND             | ND            | ND             | ND            |
| BTEX Compounds + MTBE          | ug/kg | Not applicable                | Not Analyzed             |              |              |              |              |               |               |                |               |                |               |
| Semivolatile Organic Compounds | mg/kg | Not applicable                | ND                       | ND           | ND           | ND           | ND           | ND            | ND            | ND             | ND            | ND             | ND            |
| Metals                         |       |                               |                          |              |              |              |              |               |               |                |               |                |               |
| Antimony                       | mg/kg | 40                            | 0,58                     | ND           | 0,61         | ND           | ND           | ND            | ND            | ND             | ND            | ND             | ND            |
| Arsenic                        | mg/kg | 1,6                           | <b>4,3</b>               | ND           | <b>3,1</b>   | <b>2,4</b>   | <b>7,3</b>   | <b>8</b>      | <b>3,9</b>    | <b>3,8</b>     | <b>22</b>     | <b>6,9</b>     | <b>3,8</b>    |
| Beryllium                      | mg/kg | 8                             | 0,21                     | ND           | 0,14         | 0,27         | 0,63         | 0,57          | 0,33          | 0,66           | 0,38          | 0,61           | 0,41          |
| Cadmium                        | mg/kg | 12                            | 0,13                     | ND           | ND           | 0,13         | ND           | 0,35          | ND            | ND             | 0,72          | ND             | ND            |
| Chromium                       | mg/kg | 2500                          | 50                       | 80           | 52           | 26           | 64           | 87            | 66            | 69             | 61            | 78             | 61            |
| Copper                         | mg/kg | 230                           | 22                       | 36           | 22           | 16           | 42           | 44            | 33            | 36             | 37            | 38             | 29            |
| Lead                           | mg/kg | 320                           | 2,8                      | 6,3          | 3,3          | 3,9          | 8,2          | 14            | 4,8           | 6,9            | 5,9           | 12             | 5,7           |
| Nickel                         | mg/kg | 150                           | 61                       | 98           | 61           | 32           | 77           | 100           | 90            | 84             | 110           | 110            | 78            |
| Selenium                       | mg/kg | 10                            | ND                       | ND           | ND           | ND           | ND           | ND            | ND            | ND             | ND            | ND             | ND            |
| Silver                         | mg/kg | 40                            | ND                       | ND           | ND           | ND           | ND           | ND            | ND            | ND             | ND            | ND             | ND            |
| Zinc                           | mg/kg | 600                           | 33                       | 52           | 33           | 33           | 85           | 70            | 48            | 64             | 45            | 68             | 49            |
| Mercury                        | mg/kg | 10                            | 0,049                    | 0,092        | 0,1          | 0,1          | 0,17         | ND            | 0,058         | 0,1            | 0,082         | 3              | 0,17          |
| Cyanide                        | mg/kg | Not Applicable                | ND                       | ND           | ND           | ND           | ND           | ND            | ND            | ND             | ND            | ND             | ND            |
| TPH-DRO                        | mg/kg | 83                            | Not Analyzed             |              |              |              |              |               |               |                |               |                |               |

- Notes:
1. ND = Not detected. The analyte was not detected in the sample.
  2. NA or Not Analyzed - Analysis was not conducted.
  3. California ESLs are from San Francisco Regional Water Quality Control Boar  
The most conservative ESLs from Tables A, B, C, and D are listed.
  4. mg/kg - milligrams per kilogram, or parts per million, ppm
  5. ug/kg - micrograms per kilogram, or parts per billion, ppb.
  6. Not Applicable - standards are not applicable because the analyte was not i
  7. Results in bold exceed the ESL.



## **Table 3 - Analytical Results for Groundwater Samples**

Table 3. Analytical Results for Groundwater Samples  
Phase II Environmental Site Investigation - Philips Lumileds, San Jose, California  
Detected Analytes Only

| Analyte                        | Units | California ESL | U.S. EPA MCL | Sample ID    |        |        |              |           |        |        |        |        |         |         |         |        |
|--------------------------------|-------|----------------|--------------|--------------|--------|--------|--------------|-----------|--------|--------|--------|--------|---------|---------|---------|--------|
|                                |       |                |              | PLSB-1       | PLSB-2 | PLSB-3 | PLSB-4       | PLSB-5    | PLSB-6 | PLSB-7 | PLSB-8 | PLSB-9 | PLSB-10 | PLSB-11 | PLSB-12 | PLPB-1 |
| Volatile Organic Compounds     | ug/L  | Not Applicable |              | NA           | NA     | NA     | ND           | ND        | ND     | ND     | ND     | ND     | ND      | ND      | ND      | ND     |
| BTEX Compounds + MTBE          | ug/L  | Not Applicable |              | ND           | ND     | ND     | Not Analyzed |           |        |        |        |        |         |         |         |        |
| Semivolatile Organic Compounds | ug/L  | Not Applicable |              | NA           | NA     | NA     | ND           | ND        | ND     | ND     | ND     | ND     | ND      | ND      | ND      | ND     |
| Dissolved Metals               |       |                |              |              |        |        |              |           |        |        |        |        |         |         |         |        |
| Arsenic                        | ug/L  | 10 / 36        | 10           | Not Analyzed |        |        | ND           | <b>24</b> | ND     | ND     | ND     | ND     | ND      | ND      | ND      | ND     |
| Selenium                       | ug/L  | 5              | 50           |              |        |        | ND           | ND        | ND     | ND     | ND     | ND     | ND      | ND      | ND      | ND     |
| Zinc                           | ug/L  | 81             | 5.000        |              |        |        | 45           | 55        | 21     | 44     | 27     | 33     | 75      | ND      | ND      | 43     |
| Mercury                        | ug/L  | 0,025          | 2            |              |        |        | ND           | ND        | ND     | ND     | ND     | ND     | ND      | ND      | ND      | ND     |
| TPH - DRO                      | ug/L  | 100            | NE           | ND           | ND     | 880    | NA           | NA        | NA     | NA     | NA     | NA     | NA      | NA      | NA      | ND     |
| Cyanide                        | mg/L  | Not applicable |              | NA           | NA     | NA     | ND           | ND        | ND     | ND     | ND     | ND     | ND      | ND      | ND      | ND     |

- Notes:
- 1. ND - Not detected. The analyte was not detected in the sample.
  - 2. NA or Not Analyzed - Analysis was not conducted.
  - 3. Not Applicable - standards are not applicable because the analyte was not detected.
  - 4. California ESLs are from the San Francisco Regional Water Quality Control Board, updated 2013.  
The most conservative ESLs from Tables A, B, C, and D are listed.
  - 5. ug/L - micrograms per liter, or parts per billion, ppb
  - 6. mg/L - milligrams per liter, or parts per million, ppm.
  - 7. The ESL for arsenic is for groundwater used as drinking water / not used as drinking water.
  - 8. NE - Not established.
  - 9. Results in bold exceed the MCL. ESLs are not enforceable, and therefore results in excess of ESLs are not bolded.

Table 3. Analytical Results for Groundwater Samples  
Phase II Environmental Site Investigation - Philips Lumileds, San Jose, California  
Detected Analytes Only

| Analyte                        | Units | California ESL | U.S. EPA MCL | Sample ID    |        |        |        |        |        |        |
|--------------------------------|-------|----------------|--------------|--------------|--------|--------|--------|--------|--------|--------|
|                                |       |                |              | PLPB-2       | PLPB-3 | PLPB-4 | PLPB-5 | PLPB-6 | PLPB-7 | PLPB-8 |
| Volatile Organic Compounds     | ug/L  | Not Applicable |              | ND           | ND     | ND     | ND     | ND     | ND     | ND     |
| BTEX Compounds + MTBE          | ug/L  | Not Applicable |              | Not Analyzed |        |        |        |        |        |        |
| Semivolatile Organic Compounds | ug/L  | Not Applicable |              | ND           | ND     | ND     | ND     | ND     | ND     | ND     |
| Dissolved Metals               |       |                |              |              |        |        |        |        |        |        |
| Arsenic                        | ug/L  | 10 / 36        | 10           | 12           | ND     | ND     | ND     | ND     | ND     | ND     |
| Selenium                       | ug/L  | 5              | 50           | ND           | ND     | 21     | ND     | ND     | ND     | ND     |
| Zinc                           | ug/L  | 81             | 5.000        | 81           | ND     | 20     | 21     | 36     | ND     | 20     |
| Mercury                        | ug/L  | 0,025          | 2            | ND           | ND     | ND     | ND     | ND     | 0,24   | ND     |
| TPH - DRO                      | ug/L  | 100            | NE           | NA           | NA     | NA     | NA     | NA     | ND     | ND     |
| Cyanide                        | mg/L  | Not applicable |              | ND           | NA     | NA     | ND     | NA     | NA     | NA     |

- Notes:
1. ND - Not detected. The analyte was not detected in the sample.
  2. NA or Not Analyzed - Analysis was not conducted.
  3. Not Applicable - standards are not applicable because the analyte was not detected.
  4. California ESLs are from the San Francisco Regional Water Quality Control Board, updated 2013.  
The most conservative ESLs from Tables A, B, C, and D are listed.
  5. ug/L - micrograms per liter, or parts per billion, ppb
  6. mg/L - milligrams per liter, or parts per million, ppm.
  7. The ESL for arsenic is for groundwater used as drinking water / not used as drinking water.
  8. NE - Not established.
  9. Results in bold exceed the MCL. ESLs are not enforceable, and therefore results in excess of ESLs are not I

## **Table 4 - Analytical Results for Surface Soil Samples Analyzed for Arsenic**



Table 4. Analytical Results for Surface Soil Samples Analyzed for Arsenic  
Phase II Environmental Site Investigation - Philips Lumileds, San Jose, California

| Analyte | Sample ID and Analytical Result (in mg/kg) |        |        |                      |      |      |      |      |      |      |      |      |       |       |       | California ESL - updated 2013 |
|---------|--------------------------------------------|--------|--------|----------------------|------|------|------|------|------|------|------|------|-------|-------|-------|-------------------------------|
|         | Background (Upwind)                        |        |        | Downwind of Baghouse |      |      |      |      |      |      |      |      |       |       |       |                               |
|         | SSBG-1                                     | SSBG-2 | SSBG-3 | SS-1                 | SS-2 | SS-3 | SS-4 | SS-5 | SS-6 | SS-7 | SS-8 | SS-9 | SS-10 | SS-11 | SS-12 |                               |
| Arsenic | 9,3                                        | 6,7    | 8      | 8,2                  | 7,4  | 36   | 9,7  | 23   | 23   | 10   | 12   | 14   | 13    | 11    | 9,1   | 1,6                           |

- Notes:
1. California ESLs are from San Francisco Regional Water Quality Control Board, updated 2008. Standards are listed for shallow soils. The standards for shallow soil where groundwater is or is not a potential source of drinking water are the same (1.6 mg/kg).
  2. All results are in units of milligrams per kilogram (mg/kg), or parts per million, ppm.
  3. Results in bold exceed the ESL.

**APPENDIX B**

**SAN FRANCISCO BAY AREA BACKGROUND METALS  
CONCENTRATIONS**

**Appendix B**  
**San Francisco Bay Area Background Metals Concentrations**  
**Northtown Campus**  
**350 and 370 West Trimble Road**  
**San Jose, California**

Langan 770651908  
August 2025

| <b>Metal</b> | <b>Concentration<br/>(mg/kg)</b> |
|--------------|----------------------------------|
| Antimony     | 1.5 - 7.1                        |
| Arsenic      | 1.2 - 31                         |
| Barium       | 41 - 411                         |
| Beryllium    | 0.29 - 1.1                       |
| Cadmium      | 0.27 - 3.3                       |
| Chromium     | 10 - 142                         |
| Cobalt       | 6.5 - 25.5                       |
| Copper       | 5.4 - 100                        |
| Lead         | 4.8 - 65                         |
| Mercury      | 0.07 - 0.6                       |
| Molybdenum   | 0.33 - 11.4                      |
| Nickel       | 16 - 144                         |
| Selenium     | < 0.25 - 7                       |
| Silver       | 0.2 - 2.2                        |
| Thallium     | < 0.25 - 42.5                    |
| Vanadium     | 22 - 90                          |
| Zinc         | 33 - 282                         |

Notes:

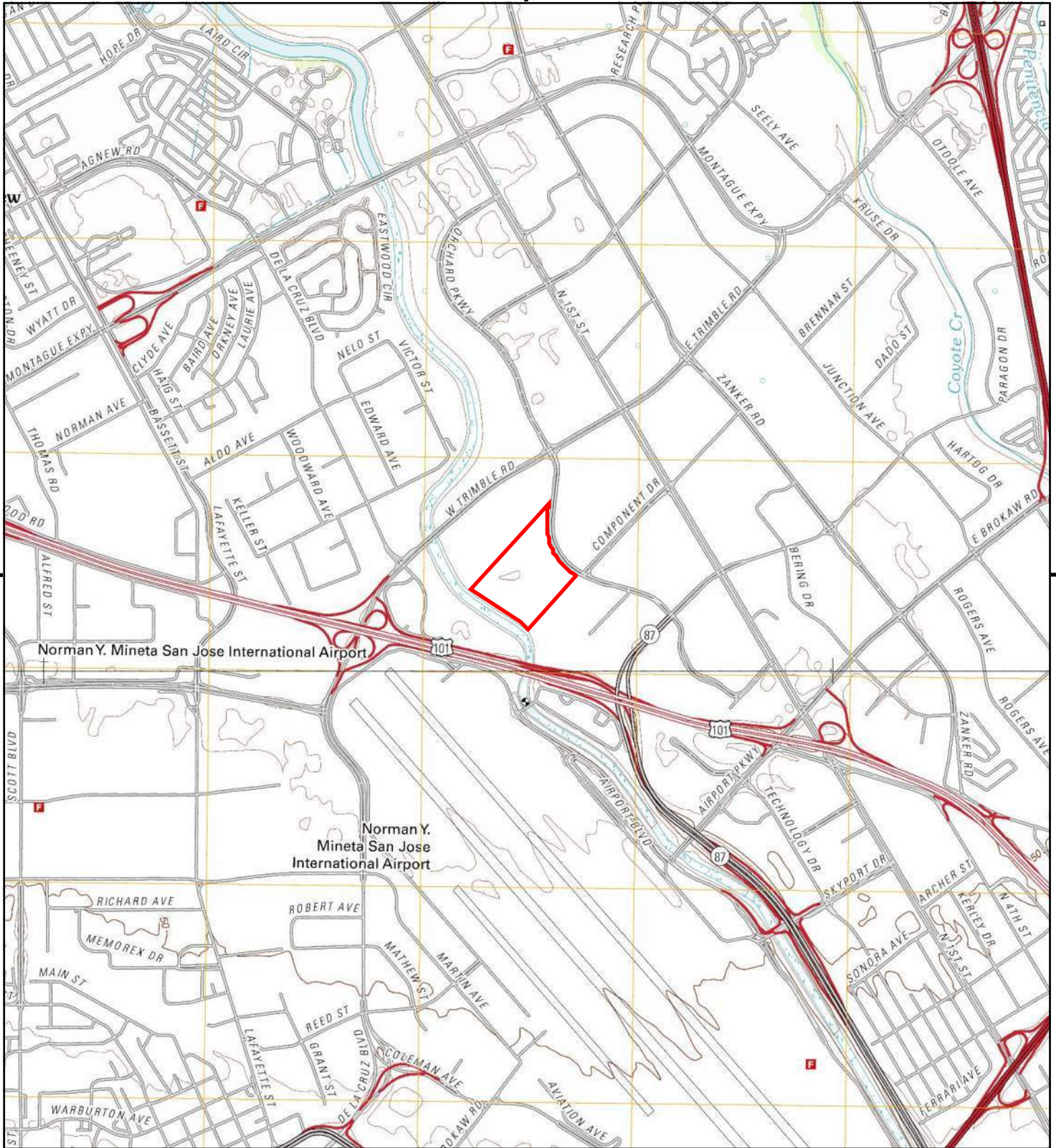
Environmental Resources Management, 2006. *Background concentration ranges of metals in Bay Area soils, Appendix A, Table A-2, Feasibility Study, Hookston Station, Pleasant Hill, California* dated July.

## **APPENDIX C**

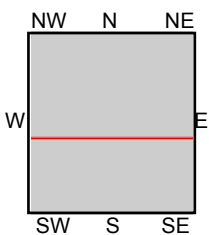
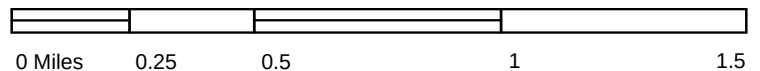
### **BURNS AND MCDONNELL PHASE II ESA FIGURES AND TABLES**

## FIGURES





This report includes information from the following map sheet(s).



TP, Milpitas, 2012, 7.5-minute  
S, San Jose West, 2012, 7.5-minute

## FIGURE 1

SITE NAME: 07USW  
ADDRESS: 350 W TRIMBLE RD  
San Jose, CA 95131  
CLIENT: Burns & McDonnell Engineering







 Approximate Property Boundary  
 Sampling Points



200 100 0 200  
  
Scale in Feet



**FIGURE 2**  
Sampling Location Map  
07USW Site  
Microsoft Corporation  
Santa Clara County, California

## TABLES

**TABLE 1**  
Soil Analytical Summary: VOCs  
2020 Phase II Sampling Event  
07USW Site, Santa Clara County, California

| Sample ID | Lab Number                     | 1,1,1,2-Tetrachloroethane | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachloroethane | 1,1,2-Trichloroethane | 1,1,2-Trichlorotrifluoroethane (Freon 113) | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,1-Dichloropropene | 1,2,3-Trichlorobenzene | 1,2,3-Trichloropropane | 1,2,4-Trichlorobenzene | 1,2,4-Trimethylbenzene   | 1,2-Dibromo-3-chloropropane | 1,2-Dibromoethane | 1,2-Dichlorobenzene | 1,2-Dichloroethane | 1,2-Dichloropropane | 1,3,5-Trimethylbenzene   | 1,3-Dichlorobenzene | 1,3-Dichloropropane       |
|-----------|--------------------------------|---------------------------|-----------------------|---------------------------|-----------------------|--------------------------------------------|--------------------|--------------------|---------------------|------------------------|------------------------|------------------------|--------------------------|-----------------------------|-------------------|---------------------|--------------------|---------------------|--------------------------|---------------------|---------------------------|
|           | Residential ESL <sup>(a)</sup> | 2,000                     | 1,700,000             | 610                       | 1,200                 | -                                          | 3,600              | 83,000             | -                   | 63,000 <sup>(1)</sup>  | 23                     | 24,000                 | 300,000 <sup>(1)</sup>   | 4.4                         | 36                | 1,800,000           | 470                | 1,000               | 270,000 <sup>(1)</sup>   | -                   | 1,600,000 <sup>(1)</sup>  |
|           | Industrial ESL <sup>(b)</sup>  | 8,900                     | 7,300,000             | 2,700                     | 5,100                 | -                                          | 16,000             | 350,000            | -                   | 930,000 <sup>(1)</sup> | 110                    | 110,000                | 1,800,000 <sup>(1)</sup> | 59                          | 160               | 9,400,000           | 2,100              | 4,400               | 1,500,000 <sup>(1)</sup> | -                   | 23,000,000 <sup>(1)</sup> |
| SP1-D5    | N043035-002B                   | <0.52                     | <0.40                 | <0.23                     | <0.46                 | <0.55                                      | <0.44              | <0.32              | <0.32               | 1.8 J                  | <0.47                  | <0.19                  | <0.12                    | <0.68                       | <0.37             | <0.16               | <0.32              | <0.30               | <0.55                    | <0.17               | <0.26                     |
| SP1-D10   | N043035-003B                   | <0.52                     | <0.40                 | <0.23                     | <0.46                 | <0.55                                      | <0.44              | <0.32              | <0.32               | <0.20                  | <0.47                  | <0.19                  | <0.12                    | <0.68                       | <0.37             | <0.16               | <0.32              | <0.30               | <0.55                    | <0.17               | <0.26                     |
| SP1-D15   | N043035-004B                   | <0.52                     | <0.40                 | <0.23                     | <0.46                 | <0.55                                      | <0.44              | <0.32              | <0.32               | <0.20                  | <0.47                  | <0.19                  | <0.12                    | <0.68                       | <0.37             | <0.16               | <0.32              | <0.30               | <0.55                    | <0.17               | <0.26                     |
| SP1-D20   | N043035-005A                   | <0.52                     | <0.40                 | <0.23                     | <0.46                 | <0.55                                      | <0.44              | <0.32              | <0.32               | <0.20                  | <0.47                  | <0.19                  | <0.12                    | <0.68                       | <0.37             | <0.16               | <0.32              | <0.30               | <0.55                    | <0.17               | <0.26                     |
| SP2-D5    | N043035-007A                   | <0.52                     | <0.40                 | <0.23                     | <0.46                 | <0.55                                      | <0.44              | <0.32              | <0.32               | <0.20                  | <0.47                  | <0.19                  | <0.12                    | <0.68                       | <0.37             | <0.16               | <0.32              | <0.30               | <0.55                    | <0.17               | <0.26                     |
| SP2-D10   | N043035-008A                   | <0.52                     | <0.40                 | <0.23                     | <0.46                 | <0.55                                      | <0.44              | <0.32              | <0.32               | <0.20                  | <0.47                  | <0.19                  | <0.12                    | <0.68                       | <0.37             | <0.16               | <0.32              | <0.30               | <0.55                    | <0.17               | <0.26                     |
| SP2-D15   | N043035-009A                   | <0.52                     | <0.40                 | <0.23                     | <0.46                 | <0.55                                      | <0.44              | <0.32              | <0.32               | <0.20                  | <0.47                  | <0.19                  | <0.12                    | <0.68                       | <0.37             | <0.16               | <0.32              | <0.30               | <0.55                    | <0.17               | <0.26                     |
| SP2-D20   | N043035-010A                   | <0.52                     | <0.40                 | <0.23                     | <0.46                 | <0.55                                      | <0.44              | <0.32              | <0.32               | <0.20                  | <0.47                  | <0.19                  | <0.12                    | <0.68                       | <0.37             | <0.16               | <0.32              | <0.30               | <0.55                    | <0.17               | <0.26                     |
| SP3-D5    | N043035-012A                   | <0.52                     | <0.40                 | <0.23                     | <0.46                 | <0.55                                      | <0.44              | <0.32              | <0.32               | <0.20                  | <0.47                  | <0.19                  | <0.12                    | <0.68                       | <0.37             | <0.16               | <0.32              | <0.30               | <0.55                    | <0.17               | <0.26                     |
| SP3-D10   | N043035-013A                   | <0.52                     | <0.40                 | <0.23                     | <0.46                 | <0.55                                      | <0.44              | <0.32              | <0.32               | <0.20                  | <0.47                  | <0.19                  | <0.12                    | <0.68                       | <0.37             | <0.16               | <0.32              | <0.30               | <0.55                    | <0.17               | <0.26                     |
| SP3-D15   | N043035-014A                   | <0.52                     | <0.40                 | <0.23                     | <0.46                 | <0.55                                      | <0.44              | <0.32              | <0.32               | <0.20                  | <0.47                  | <0.19                  | <0.12                    | <0.68                       | <0.37             | <0.16               | <0.32              | <0.30               | <0.55                    | <0.17               | <0.26                     |
| SP3-D20   | N043035-015A                   | <0.52                     | <0.40                 | <0.23                     | <0.46                 | <0.55                                      | <0.44              | <0.32              | <0.32               | <0.20                  | <0.47                  | <0.19                  | <0.12                    | <0.68                       | <0.37             | <0.16               | <0.32              | <0.30               | <0.55                    | <0.17               | <0.26                     |
| SP4-D5    | N043035-017A                   | <0.52                     | <0.40                 | <0.23                     | <0.46                 | <0.55                                      | <0.44              | <0.32              | <0.32               | <0.20                  | <0.47                  | <0.19                  | <0.12                    | <0.68                       | <0.37             | <0.16               | <0.32              | <0.30               | <0.55                    | <0.17               | <0.26                     |
| SP4-D10   | N043035-018A                   | <0.52                     | <0.40                 | <0.23                     | <0.46                 | <0.55                                      | <0.44              | <0.32              | <0.32               | <0.20                  | <0.47                  | <0.19                  | <0.12                    | <0.68                       | <0.37             | <0.16               | <0.32              | <0.30               | <0.55                    | <0.17               | <0.26                     |
| SP4-D15   | N043035-019A                   | <0.52                     | <0.40                 | <0.23                     | <0.46                 | <0.55                                      | <0.44              | <0.32              | <0.32               | <0.20                  | <0.47                  | <0.19                  | <0.12                    | <0.68                       | <0.37             | <0.16               | <0.32              | <0.30               | <0.55                    | <0.17               | <0.26                     |
| SP4-D20   | N043035-020A                   | <0.52                     | <0.40                 | <0.23                     | <0.46                 | <0.55                                      | <0.44              | <0.32              | <0.32               | <0.20                  | <0.47                  | <0.19                  | <0.12                    | <0.68                       | <0.37             | <0.16               | <0.32              | <0.30               | <0.55                    | <0.17               | <0.26                     |
| SP5-D5    | N043035-022A                   | <0.52                     | <0.40                 | <0.23                     | <0.46                 | <0.55                                      | <0.44              | <0.32              | <0.32               | <0.20                  | <0.47                  | <0.19                  | <0.12                    | <0.68                       | <0.37             | <0.16               | <0.32              | <0.30               | <0.55                    | <0.17               | <0.26                     |
| SP5-D10   | N043035-023A                   | <0.52                     | <0.40                 | <0.23                     | <0.46                 | <0.55                                      | <0.44              | <0.32              | <0.32               | <0.20                  | <0.47                  | <0.19                  | <0.12                    | <0.68                       | <0.37             | <0.16               | <0.32              | <0.30               | <0.55                    | <0.17               | <0.26                     |
| SP5-D15   | N043035-024A                   | <0.52                     | <0.40                 | <0.23                     | <0.46                 | <0.55                                      | <0.44              | <0.32              | <0.32               | <0.20                  | <0.47                  | <0.19                  | <0.12                    | <0.68                       | <0.37             | <0.16               | <0.32              | <0.30               | <0.55                    | <0.17               | <0.26                     |
| SP5-D20   | N043035-025A                   | <0.52                     | <0.40                 | <0.23                     | <0.46                 | <0.55                                      | <0.44              | <0.32              | <0.32               | <0.20                  | <0.47                  | <0.19                  | <0.12                    | <0.68                       | <0.37             | <0.16               | <0.32              | <0.30               | <0.55                    | <0.17               | <0.26                     |

**Notes:**

- (a) San Francisco Bay Regional Water Quality Control Board (RWQCB) environmental screening levels (ESLs) for Residential: Shallow Soil Exposure, Table S-1, 2019 (Rev. 2)
- (b) RWQCB ESLs for Commercial/Industrial: Shallow Soil Exposure, Table S-1, 2019 (Rev. 2)
- (1) RWQCB ESL not defined. For comparison use EPA Regional Screening Level (RSL) Summary Table (TR=1E-06, HQ=1) November 2020
- RWQCB ESL and EPA RSL not defined

Samples collected November 12, 2020

All results in micrograms per kilogram (µg/Kg), using EPA Method 8260B

SP1-D5 Boring Location SP-1 Boring Location SP-1 at a depth of approximately 5 feet below ground surface  
 < Compound was not detected above the indicated laboratory Method Detection Limit (MDL)  
 J Estimated. Compound below the Practical Quantitation Limit (PQL) but above the MDL

**Bold** Value above laboratory reporting limit  
 Value exceeds the Residential ESLs for their respective constituent  
 Value exceeds the Industrial ESLs for their respective constituent

**TABLE 1**  
Soil Analytical Summary: VOCs  
2020 Phase II Sampling Event  
07USW Site, Santa Clara County, California

| Sample ID | Lab Number                     | 1,4-Dichlorobenzene | 2,2-Dichloropropane | 2-Chlorotoluene           | 4-Isopropyltoluene | Benzene | Bromobenzene             | Bromodichloromethane | Bromoform | Bromomethane | Carbon tetrachloride | Chlorobenzene | Chloroethane | Chloroform | Chloromethane | cis-1,2-Dichloroethene | cis-1,3-Dichloropropene | Dibromochloromethane | Dibromomethane        | Dichlorodifluoromethane (Freon 12) | Ethylbenzene |
|-----------|--------------------------------|---------------------|---------------------|---------------------------|--------------------|---------|--------------------------|----------------------|-----------|--------------|----------------------|---------------|--------------|------------|---------------|------------------------|-------------------------|----------------------|-----------------------|------------------------------------|--------------|
|           | Residential ESL <sup>(a)</sup> | 2,600               | -                   | 1,600,000 <sup>(1)</sup>  | -                  | 330     | 290,000 <sup>(1)</sup>   | 290                  | 18,000    | 6,900        | 620                  | 270,000       | 14,000,000   | 320        | 110,000       | 19,000                 | 570                     | 8,300                | 24,000 <sup>(1)</sup> | 87,000 <sup>(1)</sup>              | 5,900        |
|           | Industrial ESL <sup>(b)</sup>  | 12,000              | -                   | 23,000,000 <sup>(1)</sup> | -                  | 1,400   | 1,800,000 <sup>(1)</sup> | 1,300                | 80,000    | 30,000       | 2,700                | 1,300,000     | 59,000,000   | 1,400      | 470,000       | 85,000                 | 2,500                   | 39,000               | 99,000 <sup>(1)</sup> | 370,000 <sup>(1)</sup>             | 26,000       |
| SP1-D5    | N043035-002B                   | <0.16               | <0.39               | <0.17                     | <0.16              | <0.21   | <0.20                    | <0.41                | <0.46     | 1.0 J        | <0.64                | <0.22         | <1.7         | <0.79      | <0.46         | <0.21                  | <0.32                   | <0.44                | <0.27                 | <0.77                              | <0.22        |
| SP1-D10   | N043035-003B                   | <0.16               | <0.39               | <0.17                     | <0.16              | <0.21   | <0.20                    | <0.41                | <0.46     | <0.90        | <0.64                | <0.22         | <1.7         | <0.79      | <0.46         | <0.21                  | <0.32                   | <0.44                | <0.27                 | <0.77                              | <0.22        |
| SP1-D15   | N043035-004B                   | <0.16               | <0.39               | <0.17                     | <0.16              | <0.21   | <0.20                    | <0.41                | <0.46     | <0.90        | <0.64                | <0.22         | <1.7         | <0.79      | <0.46         | <0.21                  | <0.32                   | <0.44                | <0.27                 | <0.77                              | <0.22        |
| SP1-D20   | N043035-005A                   | <0.16               | <0.39               | <0.17                     | <0.16              | <0.21   | <0.20                    | <0.41                | <0.46     | <0.90        | <0.64                | <0.22         | <1.7         | <0.79      | <0.46         | <0.21                  | <0.32                   | <0.44                | <0.27                 | <0.77                              | <0.22        |
| SP2-D5    | N043035-007A                   | <0.16               | <0.39               | <0.17                     | <0.16              | <0.21   | <0.20                    | <0.41                | <0.46     | <0.90        | <0.64                | <0.22         | <1.7         | <0.79      | <0.46         | <0.21                  | <0.32                   | <0.44                | <0.27                 | <0.77                              | <0.22        |
| SP2-D10   | N043035-008A                   | <0.16               | <0.39               | <0.17                     | <0.16              | <0.21   | <0.20                    | <0.41                | <0.46     | <0.90        | <0.64                | <0.22         | <1.7         | <0.79      | <0.46         | <0.21                  | <0.32                   | <0.44                | <0.27                 | <0.77                              | <0.22        |
| SP2-D15   | N043035-009A                   | <0.16               | <0.39               | <0.17                     | <0.16              | <0.21   | <0.20                    | <0.41                | <0.46     | <0.90        | <0.64                | <0.22         | <1.7         | <0.79      | <0.46         | <0.21                  | <0.32                   | <0.44                | <0.27                 | <0.77                              | <0.22        |
| SP2-D20   | N043035-010A                   | <0.16               | <0.39               | <0.17                     | <0.16              | <0.21   | <0.20                    | <0.41                | <0.46     | <0.90        | <0.64                | <0.22         | <1.7         | <0.79      | <0.46         | <0.21                  | <0.32                   | <0.44                | <0.27                 | <0.77                              | <0.22        |
| SP3-D5    | N043035-012A                   | <0.16               | <0.39               | <0.17                     | <0.16              | <0.21   | <0.20                    | <0.41                | <0.46     | <0.90        | <0.64                | <0.22         | <1.7         | <0.79      | <0.46         | <0.21                  | <0.32                   | <0.44                | <0.27                 | <0.77                              | <0.22        |
| SP3-D10   | N043035-013A                   | <0.16               | <0.39               | <0.17                     | <0.16              | <0.21   | <0.20                    | <0.41                | <0.46     | <0.90        | <0.64                | <0.22         | <1.7         | <0.79      | <0.46         | <0.21                  | <0.32                   | <0.44                | <0.27                 | <0.77                              | <0.22        |
| SP3-D15   | N043035-014A                   | <0.16               | <0.39               | <0.17                     | <0.16              | <0.21   | <0.20                    | <0.41                | <0.46     | <0.90        | <0.64                | <0.22         | <1.7         | <0.79      | <0.46         | <0.21                  | <0.32                   | <0.44                | <0.27                 | <0.77                              | <0.22        |
| SP3-D20   | N043035-015A                   | <0.16               | <0.39               | <0.17                     | <0.16              | <0.21   | <0.20                    | <0.41                | <0.46     | <0.90        | <0.64                | <0.22         | <1.7         | <0.79      | <0.46         | <0.21                  | <0.32                   | <0.44                | <0.27                 | <0.77                              | <0.22        |
| SP4-D5    | N043035-017A                   | <0.16               | <0.39               | <0.17                     | <0.16              | 0.72 J  | <0.20                    | <0.41                | <0.46     | <0.90        | <0.64                | <0.22         | <1.7         | <0.79      | <0.46         | <0.21                  | <0.32                   | <0.44                | <0.27                 | <0.77                              | <0.22        |
| SP4-D10   | N043035-018A                   | <0.16               | <0.39               | <0.17                     | <0.16              | <0.21   | <0.20                    | <0.41                | <0.46     | <0.90        | <0.64                | <0.22         | <1.7         | <0.79      | <0.46         | <0.21                  | <0.32                   | <0.44                | <0.27                 | <0.77                              | <0.22        |
| SP4-D15   | N043035-019A                   | <0.16               | <0.39               | <0.17                     | <0.16              | <0.21   | <0.20                    | <0.41                | <0.46     | <0.90        | <0.64                | <0.22         | <1.7         | <0.79      | <0.46         | <0.21                  | <0.32                   | <0.44                | <0.27                 | <0.77                              | <0.22        |
| SP4-D20   | N043035-020A                   | <0.16               | <0.39               | <0.17                     | <0.16              | <0.21   | <0.20                    | <0.41                | <0.46     | <0.90        | <0.64                | <0.22         | <1.7         | <0.79      | <0.46         | <0.21                  | <0.32                   | <0.44                | <0.27                 | <0.77                              | <0.22        |
| SP5-D5    | N043035-022A                   | <0.16               | <0.39               | <0.17                     | <0.16              | <0.21   | <0.20                    | <0.41                | <0.46     | <0.90        | <0.64                | <0.22         | <1.7         | <0.79      | <0.46         | <0.21                  | <0.32                   | <0.44                | <0.27                 | <0.77                              | <0.22        |
| SP5-D10   | N043035-023A                   | <0.16               | <0.39               | <0.17                     | <0.16              | <0.21   | <0.20                    | <0.41                | <0.46     | <0.90        | <0.64                | <0.22         | <1.7         | <0.79      | <0.46         | <0.21                  | <0.32                   | <0.44                | <0.27                 | <0.77                              | <0.22        |
| SP5-D15   | N043035-024A                   | <0.16               | <0.39               | <0.17                     | <0.16              | <0.21   | <0.20                    | <0.41                | <0.46     | <0.90        | <0.64                | <0.22         | <1.7         | <0.79      | <0.46         | <0.21                  | <0.32                   | <0.44                | <0.27                 | <0.77                              | <0.22        |
| SP5-D20   | N043035-025A                   | <0.16               | <0.39               | <0.17                     | <0.16              | <0.21   | <0.20                    | <0.41                | <0.46     | <0.90        | <0.64                | <0.22         | <1.7         | <0.79      | <0.46         | <0.21                  | <0.32                   | <0.44                | <0.27                 | <0.77                              | <0.22        |

**Notes:**

- (a) San Francisco Bay Regional Water Quality Control Board (RWQCB) environmental screening levels (ESLs) for Residential: Shallow Soil Exposure, Table S-1, 2019 (Rev. 2)
- (b) RWQCB ESLs for Commercial/Industrial: Shallow Soil Exposure, Table S-1, 2019 (Rev. 2)
- (1) RWQCB ESL not defined. For comparison use EPA Regional Screening Level (RSL) Summary Table (TR=1E-06, HQ=1) November 2020
- RWQCB ESL and EPA RSL not defined

Samples collected November 12, 2020

All results in micrograms per kilogram (µg/Kg), using EPA Method 8260B

- SP1-D5 Boring Location SP-1 at a depth of approximately 5 feet below ground surface
- < Compound was not detected above the indicated laboratory Method Detection Limit (MDL)
- J Estimated. Compound below the Practical Quantitation Limit (PQL) but above the MDL
- Bold** Value above laboratory reporting limit
- Value exceeds the Residential ESLs for their respective constituent
- Value exceeds the Industrial ESLs for their respective constituent



**TABLE 1**  
Soil Analytical Summary: VOCs  
2020 Phase II Sampling Event  
07USW Site, Santa Clara County, California

| Sample ID | Lab Number                     | Hexachlorobutadiene | Isopropylbenzene | m,p-Xylene | Methyl ethyl ketone | Methyl tert-butyl ether (MTBE) | Methylene chloride | Naphthalene | N-Butylbenzene            | N-Propylbenzene | o-Xylene  | p-Chlorotoluene           | sec-Butylbenzene           | Styrene    | tert-Butylbenzene          | Tetrachloroethene | Toluene       | trans-1,2-Dichloroethene | Trichloroethene | Trichlorofluoromethane (Freon 11) | Vinyl chloride |
|-----------|--------------------------------|---------------------|------------------|------------|---------------------|--------------------------------|--------------------|-------------|---------------------------|-----------------|-----------|---------------------------|----------------------------|------------|----------------------------|-------------------|---------------|--------------------------|-----------------|-----------------------------------|----------------|
|           | Residential ESL <sup>(a)</sup> | 1,200               | -                | 580,000    | 27,000,000          | 47,000                         | 1,900              | 3,800       | 3,900,000 <sup>(1)</sup>  | -               | 580,000   | 1,600,000 <sup>(1)</sup>  | 7,800,000 <sup>(1)</sup>   | 5,700,000  | 7,800,000 <sup>(1)</sup>   | 590               | 1,100,000     | 130,000                  | 950             | 23,000,000 <sup>(1)</sup>         | 8.3            |
|           | Industrial ESL <sup>(b)</sup>  | 5,300               | --               | 2,500,000  | 200,000,000         | 210,000                        | 25,000             | 17,000      | 58,000,000 <sup>(1)</sup> | --              | 2,500,000 | 23,000,000 <sup>(1)</sup> | 120,000,000 <sup>(1)</sup> | 33,000,000 | 120,000,000 <sup>(1)</sup> | 2,700             | 5,300,000     | 600,000                  | 6,100           | 350,000,000 <sup>(1)</sup>        | 150            |
| SP1-D5    | N043035-002B                   | <0.59               | <0.19            | <0.45      | <9.3                | <0.86                          | <3.6               | <0.38       | <0.19                     | <0.20           | <0.17     | <0.14                     | <0.17                      | <1.2       | <0.20                      | <0.50             | <b>0.90 J</b> | <0.54                    | <0.51           | <0.57                             | <0.38          |
| SP1-D10   | N043035-003B                   | <0.59               | <0.19            | <0.45      | <9.3                | <0.86                          | <3.6               | <0.38       | <0.19                     | <0.20           | <0.17     | <0.14                     | <0.17                      | <1.2       | <0.20                      | <0.50             | <b>0.71 J</b> | <0.54                    | <0.51           | <0.57                             | <0.38          |
| SP1-D15   | N043035-004B                   | <0.59               | <0.19            | <0.45      | <9.3                | <0.86                          | <3.6               | <0.38       | <0.19                     | <0.20           | <0.17     | <0.14                     | <0.17                      | <1.2       | <0.20                      | <0.50             | <b>0.71 J</b> | <0.54                    | <0.51           | <0.57                             | <0.38          |
| SP1-D20   | N043035-005A                   | <0.59               | <0.19            | <0.45      | <9.3                | <0.86                          | <3.6               | <0.38       | <0.19                     | <0.20           | <0.17     | <0.14                     | <0.17                      | <1.2       | <0.20                      | <0.50             | <b>0.69 J</b> | <0.54                    | <0.51           | <0.57                             | <0.38          |
| SP2-D5    | N043035-007A                   | <0.59               | <0.19            | <0.45      | <9.3                | <0.86                          | <3.6               | <0.38       | <0.19                     | <0.20           | <0.17     | <0.14                     | <0.17                      | <1.2       | <0.20                      | <0.50             | <0.29         | <0.54                    | <0.51           | <0.57                             | <0.38          |
| SP2-D10   | N043035-008A                   | <0.59               | <0.19            | <0.45      | <9.3                | <0.86                          | <3.6               | <0.38       | <0.19                     | <0.20           | <0.17     | <0.14                     | <0.17                      | <1.2       | <0.20                      | <0.50             | <0.29         | <0.54                    | <0.51           | <0.57                             | <0.38          |
| SP2-D15   | N043035-009A                   | <0.59               | <0.19            | <0.45      | <9.3                | <0.86                          | <3.6               | <0.38       | <0.19                     | <0.20           | <0.17     | <0.14                     | <0.17                      | <1.2       | <0.20                      | <0.50             | <0.29         | <0.54                    | <0.51           | <0.57                             | <0.38          |
| SP2-D20   | N043035-010A                   | <0.59               | <0.19            | <0.45      | <9.3                | <0.86                          | <3.6               | <0.38       | <0.19                     | <0.20           | <0.17     | <0.14                     | <0.17                      | <1.2       | <0.20                      | <0.50             | <0.29         | <0.54                    | <0.51           | <0.57                             | <0.38          |
| SP3-D5    | N043035-012A                   | <0.59               | <0.19            | <0.45      | <9.3                | <0.86                          | <3.6               | <0.38       | <0.19                     | <0.20           | <0.17     | <0.14                     | <0.17                      | <1.2       | <0.20                      | <0.50             | <0.29         | <0.54                    | <0.51           | <0.57                             | <0.38          |
| SP3-D10   | N043035-013A                   | <0.59               | <0.19            | <0.45      | <9.3                | <0.86                          | <b>3.8 J</b>       | <0.38       | <0.19                     | <0.20           | <0.17     | <0.14                     | <0.17                      | <1.2       | <0.20                      | <0.50             | <0.29         | <0.54                    | <0.51           | <0.57                             | <0.38          |
| SP3-D15   | N043035-014A                   | <0.59               | <0.19            | <0.45      | <9.3                | <0.86                          | <b>3.8 J</b>       | <0.38       | <0.19                     | <0.20           | <0.17     | <0.14                     | <0.17                      | <1.2       | <0.20                      | <0.50             | <0.29         | <0.54                    | <0.51           | <0.57                             | <0.38          |
| SP3-D20   | N043035-015A                   | <0.59               | <0.19            | <0.45      | <9.3                | <0.86                          | <3.6               | <0.38       | <0.19                     | <0.20           | <0.17     | <0.14                     | <0.17                      | <1.2       | <0.20                      | <0.50             | <0.29         | <0.54                    | <0.51           | <0.57                             | <0.38          |
| SP4-D5    | N043035-017A                   | <0.59               | <0.19            | <0.45      | <9.3                | <0.86                          | <3.6               | <0.38       | <0.19                     | <0.20           | <0.17     | <0.14                     | <0.17                      | <1.2       | <0.20                      | <0.50             | <b>0.84 J</b> | <0.54                    | <0.51           | <0.57                             | <0.38          |
| SP4-D10   | N043035-018A                   | <0.59               | <0.19            | <0.45      | <9.3                | <0.86                          | <3.6               | <0.38       | <0.19                     | <0.20           | <0.17     | <0.14                     | <0.17                      | <1.2       | <0.20                      | <0.50             | <0.29         | <0.54                    | <0.51           | <0.57                             | <0.38          |
| SP4-D15   | N043035-019A                   | <0.59               | <0.19            | <0.45      | <9.3                | <0.86                          | <b>3.8 J</b>       | <0.38       | <0.19                     | <0.20           | <0.17     | <0.14                     | <0.17                      | <1.2       | <0.20                      | <0.50             | <0.29         | <0.54                    | <0.51           | <0.57                             | <0.38          |
| SP4-D20   | N043035-020A                   | <0.59               | <0.19            | <0.45      | <9.3                | <0.86                          | <3.6               | <0.38       | <0.19                     | <0.20           | <0.17     | <0.14                     | <0.17                      | <1.2       | <0.20                      | <0.50             | <0.29         | <0.54                    | <0.51           | <0.57                             | <0.38          |
| SP5-D5    | N043035-022A                   | <0.59               | <0.19            | <0.45      | <9.3                | <0.86                          | <3.6               | <0.38       | <0.19                     | <0.20           | <0.17     | <0.14                     | <0.17                      | <1.2       | <0.20                      | <0.50             | <0.29         | <0.54                    | <0.51           | <0.57                             | <0.38          |
| SP5-D10   | N043035-023A                   | <0.59               | <0.19            | <0.45      | <9.3                | <0.86                          | <3.6               | <0.38       | <0.19                     | <0.20           | <0.17     | <0.14                     | <0.17                      | <1.2       | <0.20                      | <0.50             | <0.29         | <0.54                    | <0.51           | <0.57                             | <0.38          |
| SP5-D15   | N043035-024A                   | <0.59               | <0.19            | <0.45      | <9.3                | <0.86                          | <3.6               | <0.38       | <0.19                     | <0.20           | <0.17     | <0.14                     | <0.17                      | <1.2       | <0.20                      | <0.50             | <0.29         | <0.54                    | <0.51           | <0.57                             | <0.38          |
| SP5-D20   | N043035-025A                   | <0.59               | <0.19            | <0.45      | <9.3                | <0.86                          | <3.6               | <0.38       | <0.19                     | <0.20           | <0.17     | <0.14                     | <0.17                      | <1.2       | <0.20                      | <0.50             | <0.29         | <0.54                    | <0.51           | <0.57                             | <0.38          |

**Notes:**

- (a) San Francisco Bay Regional Water Quality Control Board (RWQCB) environmental screening levels (ESLs) for Residential: Shallow Soil Exposure, Table S-1, 2019 (Rev. 2)
- (b) RWQCB ESLs for Commercial/Industrial: Shallow Soil Exposure, Table S-1, 2019 (Rev. 2)
- (1) RWQCB ESL not defined. For comparison use EPA Regional Screening Level (RSL) Summary Table (TR=1E-06, HQ=1) November 2020
- RWQCB ESL and EPA RSL not defined

Samples collected November 12, 2020

All results in micrograms per kilogram (µg/Kg), using EPA Method 8260B

- SP1-D5 Boring Location SP-1 at a depth of approximately 5 feet below ground surface
- < Compound was not detected above the indicated laboratory Method Detection Limit (MDL)
- J Estimated. Compound below the Practical Quantitation Limit (PQL) but above the MDL
- Bold** Value above laboratory reporting limit
- Value exceeds the Residential ESLs for their respective constituent
- Value exceeds the Industrial ESLs for their respective constituent

**TABLE 2**  
Soil Analytical Summary: Metals  
2020 Phase II Sampling Event  
07USW Site, Santa Clara County, California

| Sample ID | Lab Number                     | Antimony | Arsenic | Barium  | Beryllium | Cadmium | Chromium                 | Cobalt | Copper | Lead | Molybdenum | Nickel | Selenium | Silver | Thallium | Vanadium | Zinc    | Mercury |
|-----------|--------------------------------|----------|---------|---------|-----------|---------|--------------------------|--------|--------|------|------------|--------|----------|--------|----------|----------|---------|---------|
|           | Residential ESL <sup>(a)</sup> | 11       | 0.067   | 15,000  | 16        | 78      | 120,000 <sup>(1)</sup>   | 23     | 3,100  | 80   | 390        | 820    | 390      | 390    | 0.78     | 390      | 23,000  | 13      |
|           | Industrial ESL <sup>(b)</sup>  | 160      | 0.31    | 220,000 | 230       | 1,100   | 1,800,000 <sup>(1)</sup> | 350    | 47,000 | 320  | 5,800      | 11,000 | 5,800    | 5,800  | 12       | 5,800    | 350,000 | 190     |
| SP1-D5    | N043035-002A                   | 0.44 J   | 3.9     | 200     | 0.31 J    | 0.86 J  | 62                       | 17     | 34     | 8.6  | <0.3       | 91     | <0.6     | <0.62  | <0.35    | 40       | 61      | 1.0     |
| SP1-D10   | N043035-003A                   | 0.65 J   | 3.2     | 230     | <0.22     | 0.89 J  | 68                       | 17     | 31     | 7.3  | <0.3       | 92     | <0.6     | <0.62  | <0.35    | 50       | 58      | 1.0     |
| SP1-D15   | N043035-004A                   | <0.33    | <0.54   | 76      | <0.22     | 0.57 J  | 40                       | 12     | 19     | 4.0  | <0.3       | 57     | <0.6     | <0.62  | <0.35    | 29       | 35      | 0.064 J |
| SP1-D20   | N043035-005A                   | <0.33    | 0.67 J  | 110     | <0.22     | 0.50 J  | 39                       | 9.8    | 20     | 3.6  | <0.3       | 52     | <0.6     | <0.62  | <0.35    | 34       | 35      | 0.044 J |
| SP2-D5    | N043035-007A                   | <0.33    | 0.93 J  | 160     | <0.22     | 0.78 J  | 53                       | 14     | 28     | 5.3  | <0.3       | 67     | <0.6     | <0.62  | <0.35    | 38       | 51      | 0.090 J |
| SP2-D10   | N043035-008A                   | 0.65 J   | 9.2     | 160     | <0.22     | 0.89 J  | 80                       | 19     | 37     | 13   | <0.3       | 150    | <0.6     | <0.62  | <0.35    | 45       | 58      | 1.4     |
| SP2-D15   | N043035-009A                   | <0.33    | 3.2     | 210     | <0.22     | 0.66 J  | 51                       | 14     | 21     | 3.5  | <0.3       | 81     | <0.6     | <0.62  | <0.35    | 50       | 34      | 0.13    |
| SP2-D20   | N043035-010A                   | <0.33    | 6.9     | 77      | <0.22     | 0.78 J  | 63                       | 17     | 32     | 4.9  | <0.3       | 88     | <0.6     | <0.62  | <0.35    | 51       | 51      | 0.14    |
| SP3-D5    | N043035-012A                   | <0.33    | 2.8     | 170     | <0.22     | 0.61 J  | 47                       | 13     | 19     | 2.9  | <0.3       | 66     | <0.6     | <0.62  | <0.35    | 49       | 32      | 0.062 J |
| SP3-D10   | N043035-013A                   | <0.33    | <0.54   | 110     | <0.22     | 0.72 J  | 52                       | 15     | 24     | 3.7  | <0.3       | 69     | <0.6     | <0.62  | <0.35    | 47       | 38      | 0.071 J |
| SP3-D15   | N043035-014A                   | <0.33    | 7.4     | 150     | <0.22     | 0.86 J  | 69                       | 20     | 37     | 6.7  | <0.3       | 100    | <0.6     | <0.62  | <0.35    | 45       | 60      | 0.17    |
| SP3-D20   | N043035-015A                   | <0.33    | <0.54   | 45      | <0.22     | 0.39 J  | 29                       | 7.2    | 12     | 2.6  | <0.3       | 31     | <0.6     | <0.62  | <0.35    | 27       | 24      | 0.049 J |
| SP4-D5    | N043035-017A                   | <0.33    | 2.4     | 180     | <0.22     | 0.69 J  | 54                       | 13     | 22     | 3.3  | <0.3       | 69     | <0.6     | <0.62  | <0.35    | 54       | 38      | 0.070 J |
| SP4-D10   | N043035-018A                   | <0.33    | <0.54   | 71      | <0.22     | 0.61 J  | 48                       | 16     | 24     | 3.5  | <0.3       | 64     | <0.6     | <0.62  | <0.35    | 44       | 31      | 0.081 J |
| SP4-D15   | N043035-019A                   | <0.33    | 0.61 J  | 120     | <0.22     | 0.68 J  | 53                       | 15     | 30     | 5.7  | <0.3       | 77     | <0.6     | <0.62  | <0.35    | 43       | 52      | 0.087 J |
| SP4-D20   | N043035-020A                   | <0.33    | <0.54   | 65      | <0.22     | 0.45 J  | 26                       | 7.5    | 15     | 3.3  | <0.3       | 32     | <0.6     | <0.62  | <0.35    | 27       | 25      | 0.48    |
| SP5-D5    | N043035-022A                   | <0.33    | 0.55 J  | 180     | <0.22     | 0.73 J  | 51                       | 13     | 26     | 5.0  | <0.3       | 62     | <0.6     | <0.62  | <0.35    | 46       | 48      | 0.080 J |
| SP5-D10   | N043035-023A                   | <0.33    | <0.54   | 67      | <0.22     | 0.40 J  | 31                       | 8.9    | 12     | 3.0  | <0.3       | 36     | <0.6     | <0.62  | <0.35    | 29       | 25      | 0.033 J |
| SP5-D15   | N043035-024A                   | <0.33    | 4.2     | 260     | <0.22     | 0.97 J  | 78                       | 20     | 38     | 5.8  | <0.3       | 120    | <0.6     | <0.62  | <0.35    | 58       | 57      | 0.13    |
| SP5-D20   | N043035-025A                   | <0.33    | <0.54   | 78      | <0.22     | 0.42 J  | 38                       | 9.5    | 17     | 4.0  | <0.3       | 50     | <0.6     | <0.62  | <0.35    | 33       | 29      | 0.057 J |

**Notes:**

- (a) San Francisco Bay Regional Water Quality Control Board (RWQCB) environmental screening levels (ESLs) for Residential: Shallow Soil Exposure, Table S-1, 2019 (Rev. 2)
- (b) RWQCB ESLs for Commercial/Industrial: Shallow Soil Exposure, Table S-1, 2019 (Rev. 2)
- (1) RWQCB ESL for Chromium III was selected because no historic use of Chromium VI on Property

Samples collected November 12, 2020

All results in milligrams per kilogram (mg/Kg), using EPA Method 6010B and 7471A for Mercury

|             |                                                                                       |
|-------------|---------------------------------------------------------------------------------------|
| SP1-D5      | Boring Location SP-1 at a depth of approximately 5 feet below ground surface          |
| <           | Compound was not detected above the indicated laboratory Method Detection Limit (MDL) |
| J           | Estimated. Compound below the Practical Quantitation Limit (PQL) but above the MDL    |
| <b>Bold</b> | Value above laboratory reporting limit                                                |
|             | Value exceeds the Residential ESLs for their respective constituent                   |
|             | Value exceeds the Industrial ESLs for their respective constituent                    |

**TABLE 3**  
Soil Analytical Summary: TPH  
2020 Phase II Sampling Event  
07USW Site, Santa Clara County, California

| Sample ID                      | Lab Number   | DRO   | ORO     | GRO   |
|--------------------------------|--------------|-------|---------|-------|
| Residential ESL <sup>(a)</sup> |              | 260   | 12,000  | 430   |
| Industrial ESL <sup>(b)</sup>  |              | 1,200 | 180,000 | 2,000 |
| SP1-D5                         | N043035-002A | 15    | 16      | <0.24 |
| SP1-D10                        | N043035-003A | 4.2 J | 5.6 J   | <0.24 |
| SP1-D15                        | N043035-004A | 4.0 J | 5.6 J   | <0.24 |
| SP1-D20                        | N043035-005A | 4.3 J | 5.7 J   | <0.24 |
| SP2-D5                         | N043035-007A | 4.2 J | 5.3 J   | <0.24 |
| SP2-D10                        | N043035-008A | 7.7 J | 8.3 J   | <0.24 |
| SP2-D15                        | N043035-009A | 6.8 J | 7.2 J   | <0.24 |
| SP2-D20                        | N043035-010A | 5.3 J | 6.1 J   | <0.24 |
| SP3-D5                         | N043035-012A | 5.3 J | 5.8 J   | <0.24 |
| SP3-D10                        | N043035-013A | 7.0 J | 7.2 J   | <0.24 |
| SP3-D15                        | N043035-014A | 4.1 J | 4.7 J   | <0.24 |
| SP3-D20                        | N043035-015A | 4.2 J | 5.7 J   | <0.24 |
| SP4-D5                         | N043035-017A | 3.4 J | 4.6 J   | <0.24 |
| SP4-D10                        | N043035-018A | 3.6 J | 4.4 J   | <0.24 |
| SP4-D15                        | N043035-019A | 4.6 J | 5.3 J   | <0.24 |
| SP4-D20                        | N043035-020A | 4.7 J | 5.7 J   | <0.24 |
| SP5-D5                         | N043035-022A | 4.1 J | 6.1 J   | <0.24 |
| SP5-D10                        | N043035-023A | 4.3 J | 5.8 J   | <0.24 |
| SP5-D15                        | N043035-024A | 3.8 J | 5.6 J   | <0.24 |
| SP5-D20                        | N043035-025A | <2.9  | 4.2 J   | <0.24 |

**Notes:**

- (a) San Francisco Bay Regional Water Quality Control Board (RWQCB) environmental screening levels (ESLs) for Residential: Shallow Soil Exposure, Table S-1, 2019 (Rev. 2)  
(b) RWQCB ESLs for Commercial/Industrial: Shallow Soil Exposure, Table S-1, 2019 (Rev. 2)

Samples collected November 12, 2020

All results in milligrams per kilogram (mg/Kg), using EPA Method 8015B

- SP1-D5 Boring Location SP-1 at a depth of approximately 5 feet below ground surface  
< Compound was not detected above the indicated laboratory Method Detection Limit (MDL)  
J Estimated. Compound below the Practical Quantitation Limit (PQL) but above the MDL

**Bold** Value above laboratory reporting limit

Value exceeds the Residential ESLs for their respective constituent

Value exceeds the Industrial ESLs for their respective constituent

DRO Total Petroleum Hydrocarbons (TPH) as Diesel Range Organics

ORO TPH as Oil Range Organics

GRO TPH as Gasoline Range Organics

**TABLE 4**  
Soil Analytical Summary: Pesticides  
2020 Phase II Sampling Event  
07USW Site, Santa Clara County, California

| Sample ID                      | Lab Number   | 4,4-DDD | 4,4-DDE | 4,4-DDT | Aldrin | alpha-BHC          | alpha-Chlordane | beta-BHC             | delta-BHC | Dieldrin | Endosulfan I | Endosulfan II |
|--------------------------------|--------------|---------|---------|---------|--------|--------------------|-----------------|----------------------|-----------|----------|--------------|---------------|
| Residential ESL <sup>(a)</sup> |              | 2,700   | 1,800   | 1,900   | 35     | 86 <sup>(1)</sup>  | 480             | 300 <sup>(1)</sup>   | --        | 37       | 420,000      | 420,000       |
| Industrial ESL <sup>(b)</sup>  |              | 12,000  | 8,300   | 8,500   | 150    | 360 <sup>(1)</sup> | 2,200           | 1,300 <sup>(1)</sup> | --        | 160      | 5,800,000    | 5,800,000     |
| SP1-D2                         | N043035-001A | 46      | 190     | 64      | <0.28  | <0.44              | <0.52           | <0.35                | <0.45     | 2.8      | <0.30        | <0.61         |
| SP2-D2                         | N043035-006A | 95      | 390     | 120     | <0.28  | <0.43              | <0.52           | <0.34                | <0.45     | 5.2      | <0.30        | <0.61         |
| SP3-D2                         | N043035-011A | 71      | 620     | 260     | <0.28  | <0.44              | <0.52           | <0.35                | <0.45     | 15       | <0.30        | <0.61         |
| SP4-D2                         | N043035-016A | 13      | 180     | 42      | <0.28  | <0.44              | <0.52           | <0.35                | <0.45     | 3.3      | <0.30        | <0.61         |
| SP5-D2                         | N043035-021A | 12      | 100     | 33      | <0.28  | <0.44              | <0.52           | <0.35                | <0.45     | 1.6 J    | <0.30        | <0.61         |
| SP6-D2                         | N043035-026A | 43      | 170     | 47      | <0.28  | <0.43              | <0.52           | <0.34                | <0.45     | 2.3      | <0.30        | <0.61         |
| SP7-D2                         | N043035-027A | 42      | 310     | 140     | <0.28  | <0.44              | <0.52           | <0.35                | <0.45     | 11       | <0.30        | <0.61         |
| SP8-D2                         | N043035-028A | 21      | 520     | 200     | <0.28  | <0.43              | <0.52           | <0.34                | <0.45     | 11       | <0.30        | <0.61         |

**Notes:**

- (a) San Francisco Bay Regional Water Quality Control Board (RWQCB) environmental screening levels (ESLs) for Residential: Shallow Soil Exposure, Table S-1, 2019 (Rev. 2)
- (b) RWQCB ESLs for Commercial/Industrial: Shallow Soil Exposure, Table S-1, 2019 (Rev. 2)
- (1) RWQCB ESL not defined. For comparison use EPA Regional Screening Level (RSL) Summary Table (TR=1E-06, HQ=1) November 2020
- RWQCB ESL and EPA RSL not defined

Samples collected November 12, 2020

All results in micrograms per kilogram (µg/Kg), using EPA Method 8081A

- SP1-D5 Boring Location SP-1 at a depth of approximately 5 feet below ground surface
- < Compound was not detected above the indicated laboratory Method Detection Limit (MDL)
- J Estimated. Compound below the Practical Quantitation Limit (PQL) but above the MDL

**Bold** Value above laboratory reporting limit

Value exceeds the Residential ESLs for their respective constituent

Value exceeds the Industrial ESLs for their respective constituent

**TABLE 4**  
Soil Analytical Summary: Pesticides  
2020 Phase II Sampling Event  
07USW Site, Santa Clara County, California

| Sample ID                      | Lab Number   | Endosulfan sulfate       | Endrin  | Endrin aldehyde | Endrin ketone | gamma-BHC | gamma-Chlordane | Heptachlor | Heptachlor Epoxide | Methoxychlor | Technical Chlordane | Toxaphene |
|--------------------------------|--------------|--------------------------|---------|-----------------|---------------|-----------|-----------------|------------|--------------------|--------------|---------------------|-----------|
| Residential ESL <sup>(a)</sup> |              | 380,000 <sup>(1)</sup>   | 21,000  | --              | --            | 550       | 480             | 120        | 62                 | 350,000      | 480                 | 510       |
| Industrial ESL <sup>(b)</sup>  |              | 4,900,000 <sup>(1)</sup> | 290,000 | --              | --            | 2,500     | 2,200           | 530        | 280                | 4,800,000    | 2,200               | 2,200     |
| SP1-D2                         | N043035-001A | <0.49                    | <1.0    | <0.91           | <0.59         | <0.24     | <0.28           | <0.61      | <0.28              | <2.8         | <2.4                | <15       |
| SP2-D2                         | N043035-006A | <0.48                    | <1.0    | <0.90           | <0.58         | <0.23     | <0.27           | <0.60      | <0.27              | <2.8         | <2.3                | <14       |
| SP3-D2                         | N043035-011A | <0.49                    | <1.0    | <0.90           | <0.58         | <0.24     | <0.28           | <0.60      | <0.27              | <2.8         | <2.4                | <15       |
| SP4-D2                         | N043035-016A | <0.49                    | <1.0    | <0.90           | <0.58         | <0.24     | <0.28           | <0.60      | <0.27              | <2.8         | <2.4                | <15       |
| SP5-D2                         | N043035-021A | <0.49                    | <1.0    | <0.90           | <0.58         | <0.24     | <0.28           | <0.60      | <0.27              | <2.8         | <2.4                | <15       |
| SP6-D2                         | N043035-026A | <0.48                    | <1.0    | <0.90           | <0.58         | <0.23     | <0.27           | <0.60      | <0.27              | <2.8         | <2.3                | <14       |
| SP7-D2                         | N043035-027A | <0.49                    | <1.0    | <0.91           | <0.59         | <0.24     | <0.28           | <0.60      | <0.28              | <2.8         | <2.4                | <15       |
| SP8-D2                         | N043035-028A | <b>0.48</b>              | <1.0    | <0.90           | <0.58         | <0.24     | <0.27           | <0.60      | <0.27              | <2.8         | <2.4                | <14       |

**Notes:**

- (a) San Francisco Bay Regional Water Quality Control Board (RWQCB) environmental screening levels (ESLs) for Residential: Shallow Soil Exposure, Table S-1, 2019 (Rev. 2)
- (b) RWQCB ESLs for Commercial/Industrial: Shallow Soil Exposure, Table S-1, 2019 (Rev. 2)
- (1) RWQCB ESL not defined. For comparison use EPA Regional Screening Level (RSL) Summary Table (TR=1E-06, HQ=1) November 2020
- RWQCB ESL and EPA RSL not defined

Samples collected November 12, 2020

All results in micrograms per kilogram (µg/Kg), using EPA Method 8081A

SP1-D5 Boring Location SP-1 at a depth of approximately 5 feet below ground surface

< Compound was not detected above the indicated laboratory Method Detection Limit (MDL)

J Estimated. Compound below the Practical Quantitation Limit (PQL) but above the MDL

**Bold** Value above laboratory reporting limit

Value exceeds the Residential ESLs for their respective constituent

Value exceeds the Industrial ESLs for their respective constituent



**TABLE 5**  
Groundwater Analytical Summary: VOCs  
2020 Phase II Sampling Event  
07USW Site, Santa Clara County, California

| Sample ID | Lab Number                  | 1,1,1,2-Tetrachloroethane | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachloroethane | 1,1,2-Trichloroethane | 1,1,2-Trichlorotrifluoroethane (Freon 113) | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,1-Dichloropropene | 1,2,3-Trichlorobenzene | 1,2,3-Trichloropropane | 1,2,4-Trichlorobenzene | 1,2,4-Trimethylbenzene  | 1,2-Dibromo-3-chloropropane | 1,2-Dibromoethane | 1,2-Dichlorobenzene | 1,2-Dichloroethane | 1,2-Dichloropropane | 1,3,5-Trimethylbenzene  | 1,3-Dichlorobenzene | 1,3-Dichloropropane      |
|-----------|-----------------------------|---------------------------|-----------------------|---------------------------|-----------------------|--------------------------------------------|--------------------|--------------------|---------------------|------------------------|------------------------|------------------------|-------------------------|-----------------------------|-------------------|---------------------|--------------------|---------------------|-------------------------|---------------------|--------------------------|
|           | <b>CA MCL<sup>(a)</sup></b> | <b>0.57</b>               | <b>200</b>            | <b>1</b>                  | <b>5</b>              | <b>1,200</b>                               | <b>5</b>           | <b>6</b>           | <b>5</b>            | <b>7<sup>(1)</sup></b> | <b>0.005</b>           | <b>5</b>               | <b>56<sup>(1)</sup></b> | <b>0.2</b>                  | <b>0.05</b>       | <b>600</b>          | <b>0.5</b>         | <b>5</b>            | <b>60<sup>(1)</sup></b> | <b>600</b>          | <b>370<sup>(1)</sup></b> |
| SP1       | N043035-029A                | <0.25                     | <0.20                 | <0.11                     | <0.23                 | <0.28                                      | <0.22              | <0.17              | <0.16               | <0.37                  | <0.23                  | <0.10                  | <0.060                  | <0.32                       | <0.19             | <0.089              | <0.16              | <0.16               | <0.051                  | <0.081              | <0.13                    |
| SP2       | N043035-030A                | <0.25                     | <0.20                 | <0.11                     | <0.23                 | <0.28                                      | <0.22              | <0.17              | <0.16               | <0.37                  | <0.23                  | <0.10                  | <0.060                  | <0.32                       | <0.19             | <0.089              | <0.16              | <0.16               | <0.051                  | <0.081              | <0.13                    |
| SP3       | N043035-031A                | <0.25                     | <0.20                 | <0.11                     | <0.23                 | <0.28                                      | <0.22              | <0.17              | <0.16               | <0.37                  | <0.23                  | <0.10                  | <0.060                  | <0.32                       | <0.19             | <0.089              | <0.16              | <0.16               | <0.051                  | <0.081              | <0.13                    |
| SP4       | N043035-032A                | <0.25                     | <0.20                 | <0.11                     | <0.23                 | <0.28                                      | <0.22              | <0.17              | <0.16               | <0.37                  | <0.23                  | <0.10                  | <0.060                  | <0.32                       | <0.19             | <0.089              | <0.16              | <0.16               | <0.051                  | <0.081              | <0.13                    |
| SP5       | N043035-033A                | <0.25                     | <0.20                 | <0.11                     | <0.23                 | <0.28                                      | <0.22              | <0.17              | <0.16               | <0.37                  | <0.23                  | <0.10                  | <0.060                  | <0.32                       | <0.19             | <0.089              | <0.16              | <0.16               | <0.051                  | <0.081              | <0.13                    |

**Notes:**

- (a) San Francisco Bay Regional Water Quality Control Board (RWQCB) environmental screening levels (ESLs) for Direct Exposure Human Health, Table GW-1, 2019 (Rev. 2). Typically this is the California Maximum Contaminant Level (MCL). Cross check California MCL table updated August 21, 2020.
- (1) RWQCB ESL not defined. For comparison use EPA Regional Screening Level (RSL) Summary Table (TR=1E-06, HQ=1) November 2020
- RWQCB ESL and EPA RSL not defined

Samples collected November 12, 2020

All results in micrograms per liter (µg/L), using EPA Method 8260B

- < Compound was not detected above the indicated laboratory Method Detection Limit (MDL)
- J Estimated. Compound below the Practical Quantitation Limit (PQL) but above the MDL

**Bold** Value above laboratory reporting limit

Value exceeds the RWQCB ESLs for their respective constituent

**TABLE 5**  
Groundwater Analytical Summary: VOCs  
2020 Phase II Sampling Event  
07USW Site, Santa Clara County, California

| Sample ID | Lab Number            | 1,4-Dichlorobenzene | 2,2-Dichloropropane | 2-Chlorotoluene    | 4-Isopropyltoluene | Benzene | Bromobenzene      | Bromodichloromethane | Bromoform | Bromomethane | Carbon tetrachloride | Chlorobenzene | Chloroethane | Chloroform | Chloromethane | cis-1,2-Dichloroethene | cis-1,3-Dichloropropene | Dibromochloromethane | Dibromomethane     | Dichlorodifluoromethane (Freon 12) | Ethylbenzene |
|-----------|-----------------------|---------------------|---------------------|--------------------|--------------------|---------|-------------------|----------------------|-----------|--------------|----------------------|---------------|--------------|------------|---------------|------------------------|-------------------------|----------------------|--------------------|------------------------------------|--------------|
|           | CA MCL <sup>(a)</sup> | 5                   | --                  | 240 <sup>(1)</sup> | --                 | 1       | 62 <sup>(1)</sup> | 80                   | 80        | 7.5          | 0.5                  | 0.5           | 21,000       | 80         | 190           | 6                      | 0.5                     | 80                   | 8.3 <sup>(1)</sup> | 200 <sup>(1)</sup>                 | 300          |
| SP1       | N043035-029A          | <0.08               | <0.22               | <0.09              | <0.085             | <0.11   | <0.093            | <0.20                | <0.23     | <0.38        | <0.33                | <0.11         | <0.69        | <0.38      | <0.23         | <0.11                  | <0.16                   | <0.23                | <0.13              | <0.16                              | <0.11        |
| SP2       | N043035-030A          | <0.08               | <0.22               | <0.09              | <0.085             | <0.11   | <0.093            | <0.20                | <0.23     | <0.38        | <0.33                | <0.11         | <0.69        | <0.38      | <0.23         | <0.11                  | <0.16                   | <0.23                | <0.13              | <0.16                              | <0.11        |
| SP3       | N043035-031A          | <0.08               | <0.22               | <0.09              | <0.085             | <0.11   | <0.093            | <0.20                | <0.23     | <0.38        | <0.33                | <0.11         | <0.69        | <0.38      | <0.23         | <0.11                  | <0.16                   | <0.23                | <0.13              | <0.16                              | <0.11        |
| SP4       | N043035-032A          | <0.08               | <0.22               | <0.09              | <0.085             | <0.11   | <0.093            | <0.20                | <0.23     | <0.38        | <0.33                | <0.11         | <0.69        | <0.38      | <0.23         | <0.11                  | <0.16                   | <0.23                | <0.13              | <0.16                              | <0.11        |
| SP5       | N043035-033A          | <0.08               | <0.22               | <0.09              | <0.085             | <0.11   | <0.093            | <0.20                | <0.23     | <0.38        | <0.33                | <0.11         | <0.69        | <0.38      | <0.23         | <0.11                  | <0.16                   | <0.23                | <0.13              | <0.16                              | <0.11        |

**Notes:**

- (a) San Francisco Bay Regional Water Quality Control Board (RWQCB) environmental screening levels (ESLs) for Direct Exposure Human Health, Table GW-1, 2019 (Rev. 2). Typically this is the California Maximum Contaminant Level (MCL). Cross check California MCL table updated August 21, 2020.
- (1) RWQCB ESL not defined. For comparison use EPA Regional Screening Level (RSL) Summary Table (TR=1E-06, HQ=1) November 2020
- RWQCB ESL and EPA RSL not defined

Samples collected November 12, 2020

All results in micrograms per liter (µg/L), using EPA Method 8260B

- < Compound was not detected above the indicated laboratory Method Detection Limit (MDL)
- J Estimated. Compound below the Practical Quantitation Limit (PQL) but above the MDL

**Bold** Value above laboratory reporting limit

Value exceeds the RWQCB ESLs for their respective constituent

**TABLE 5**  
Groundwater Analytical Summary: VOCs  
2020 Phase II Sampling Event  
07USW Site, Santa Clara County, California

| Sample ID | Lab Number            | Hexachlorobutadiene | Isopropylbenzene | m,p-Xylene | Methyl ethyl ketone | Methyl tert-butyl ether (MTBE) | Methylene chloride | Naphthalene | N-Butylbenzene       | N-Propylbenzene | o-Xylene | p-Chlorotoluene    | sec-Butylbenzene     | Styrene | tert-Butylbenzene  | Tetrachloroethene | Toluene | trans-1,2-Dichloroethene | Trichloroethene | Trichlorofluoromethane (Freon 11) | Vinyl chloride |
|-----------|-----------------------|---------------------|------------------|------------|---------------------|--------------------------------|--------------------|-------------|----------------------|-----------------|----------|--------------------|----------------------|---------|--------------------|-------------------|---------|--------------------------|-----------------|-----------------------------------|----------------|
|           | CA MCL <sup>(a)</sup> | 0.14                | --               | 1,750      | 5,600               | 13                             | 5                  | 0.17        | 1,000 <sup>(1)</sup> | --              | 1,750    | 250 <sup>(1)</sup> | 2,000 <sup>(1)</sup> | 10      | 690 <sup>(1)</sup> | 5                 | 150     | 10                       | 5               | 150                               | 0.5            |
| SP1       | N043035-029A          | <0.30               | <0.092           | <0.23      | <4.7                | <0.44                          | <1.2               | <0.41       | <0.093               | <0.10           | <0.087   | <0.065             | <0.076               | <0.41   | <0.10              | <0.25             | <0.13   | <0.27                    | <0.26           | <0.23                             | <0.19          |
| SP2       | N043035-030A          | <0.30               | <0.092           | <0.23      | <4.7                | <0.44                          | <b>1.3 J</b>       | <0.41       | <0.093               | <0.10           | <0.087   | <0.065             | <0.076               | <0.41   | <0.10              | <0.25             | <0.13   | <0.27                    | <0.26           | <0.23                             | <0.19          |
| SP3       | N043035-031A          | <0.30               | <0.092           | <0.23      | <4.7                | <0.44                          | <1.2               | <0.41       | <0.093               | <0.10           | <0.087   | <0.065             | <0.076               | <0.41   | <0.10              | <0.25             | <0.13   | <0.27                    | <0.26           | <0.23                             | <0.19          |
| SP4       | N043035-032A          | <0.30               | <0.092           | <0.23      | <4.7                | <0.44                          | <1.2               | <0.41       | <0.093               | <0.10           | <0.087   | <0.065             | <0.076               | <0.41   | <0.10              | <0.25             | <0.13   | <0.27                    | <0.26           | <0.23                             | <0.19          |
| SP5       | N043035-033A          | <0.30               | <0.092           | <0.23      | <4.7                | <0.44                          | <1.2               | <0.41       | <0.093               | <0.10           | <0.087   | <0.065             | <0.076               | <0.41   | <0.10              | <0.25             | <0.13   | <0.27                    | <0.26           | <0.23                             | <0.19          |

**Notes:**

- (a) San Francisco Bay Regional Water Quality Control Board (RWQCB) environmental screening levels (ESLs) for Direct Exposure Human Health, Table GW-1, 2019 (Rev. 2). Typically this is the California Maximum Contaminant Level (MCL). Cross check California MCL table updated August 21, 2020.
- (1) RWQCB ESL not defined. For comparison use EPA Regional Screening Level (RSL) Summary Table (TR=1E-06, HQ=1) November 2020
- RWQCB ESL and EPA RSL not defined

Samples collected November 12, 2020

All results in micrograms per liter (µg/L), using EPA Method 8260B

< Compound was not detected above the indicated laboratory Method Detection Limit (MDL)

J Estimated. Compound below the Practical Quantitation Limit (PQL) but above the MDL

**Bold** Value above laboratory reporting limit

Value exceeds the RWQCB ESLs for their respective constituent

**TABLE 6**  
Groundwater Analytical Summary: Metals  
2020 Phase II Sampling Event  
07USW Site, Santa Clara County, California

| Sample ID | Lab Number                  | Antimony        | Arsenic      | Barium      | Beryllium       | Cadmium         | Chromium     | Cobalt       | Copper       | Lead         | Molybdenum | Nickel       | Selenium        | Silver     | Thallium        | Vanadium     | Zinc         | Mercury       |
|-----------|-----------------------------|-----------------|--------------|-------------|-----------------|-----------------|--------------|--------------|--------------|--------------|------------|--------------|-----------------|------------|-----------------|--------------|--------------|---------------|
|           | <b>CA MCL<sup>(a)</sup></b> | <b>0.006</b>    | <b>0.01</b>  | <b>1</b>    | <b>0.004</b>    | <b>0.005</b>    | <b>0.05</b>  | <b>0.006</b> | <b>1.3</b>   | <b>0.015</b> | <b>0.1</b> | <b>0.1</b>   | <b>0.05</b>     | <b>0.1</b> | <b>0.002</b>    | <b>0.05</b>  | <b>5</b>     | <b>0.002</b>  |
| SP1       | N043035-029C                | <b>0.0073 J</b> | <b>0.025</b> | <b>0.50</b> | <b>0.0043</b>   | <b>0.0032</b>   | <b>0.051</b> | <b>0.11</b>  | <b>0.15</b>  | <b>0.023</b> | <0.0026    | <b>0.21</b>  | <b>0.015</b>    | <0.0024    | <0.006          | <b>0.067</b> | <b>0.16</b>  | <b>0.15 J</b> |
| SP2       | N043035-030C                | <0.0045         | <b>0.022</b> | <b>0.22</b> | <b>0.0024 J</b> | <b>0.0018 J</b> | <b>0.073</b> | <b>0.044</b> | <b>0.16</b>  | <b>0.029</b> | <0.0026    | <b>0.14</b>  | <0.0085         | <0.0024    | <b>0.0080 J</b> | <b>0.14</b>  | <b>0.12</b>  | <b>0.16 J</b> |
| SP3       | N043035-031C                | <0.0045         | <b>0.016</b> | <b>0.20</b> | <b>0.0017 J</b> | <b>0.0011 J</b> | <b>0.030</b> | <b>0.040</b> | <b>0.089</b> | <b>0.011</b> | <0.0026    | <b>0.087</b> | <b>0.0086 J</b> | <0.0024    | <b>0.0084 J</b> | <b>0.080</b> | <b>0.076</b> | <b>0.17 J</b> |
| SP4       | N043035-032C                | <0.0045         | <b>0.014</b> | <b>0.36</b> | <b>0.0065</b>   | <b>0.0049</b>   | <b>0.085</b> | <b>0.038</b> | <b>0.26</b>  | <b>0.042</b> | <0.0026    | <b>0.13</b>  | <b>0.0087 J</b> | <0.0024    | <b>0.012 J</b>  | <b>0.39</b>  | <b>0.18</b>  | <0.13         |
| SP5       | N043035-033C                | <0.0045         | <b>0.017</b> | <b>0.43</b> | <b>0.0039</b>   | <b>0.0029 J</b> | <b>0.11</b>  | <b>0.053</b> | <b>0.27</b>  | <b>0.017</b> | <0.0026    | <b>0.14</b>  | <0.0085         | <0.0024    | <b>0.0086 J</b> | <b>0.16</b>  | <b>0.13</b>  | <0.13         |

**Notes:**

- (a) San Francisco Bay Regional Water Quality Control Board (RWQCB) environmental screening levels (ESLs) for Direct Exposure Human Health, Table GW-1, 2019 (Rev. 2).  
Typically this is the California Maximum Contaminant Level (MCL). Cross check California MCL table updated August 21, 2020.

Samples collected November 12, 2020

All results in milligrams per liter (mg/L), using EPA Method 6010B and EPA Method 7470A for Mercury

< Compound was not detected above the indicated laboratory Method Detection Limit (MDL)

J Estimated, Compound below the Practical Quantitation Limit (PQL) but above the MDL

**Bold** Value above laboratory reporting limit

Value exceeds the RWQCB ESLs for their respective constituent

**TABLE 7**  
Groundwater Analytical Summary: TPH  
2020 Phase II Sampling Event  
07USW Site, Santa Clara County, California

| Sample ID                   | Lab Number   | DRO            | ORO                      | GRO            |
|-----------------------------|--------------|----------------|--------------------------|----------------|
| <b>CA MCL<sup>(a)</sup></b> |              | <b>0.2</b>     | <b>0.8<sup>(1)</sup></b> | <b>0.76</b>    |
| SP1                         | N043035-029B | <b>0.038 J</b> | <b>0.041 J</b>           | <b>0.030 J</b> |
| SP2                         | N043035-030B | <b>0.035 J</b> | <0.04                    | <b>0.027 J</b> |
| SP3                         | N043035-031B | <b>0.032 J</b> | <0.04                    | <b>0.023 J</b> |
| SP4                         | N043035-032B | <b>0.048 J</b> | <b>0.055 J</b>           | <b>0.025 J</b> |
| SP5                         | N043035-033B | <b>0.055 J</b> | <b>0.046 J</b>           | <b>0.045 J</b> |

**Notes:**

- (a) San Francisco Bay Regional Water Quality Control Board (RWQCB) environmental screening levels (ESLs) for Direct Exposure Human Health, Table GW-1, 2019 (Rev. 2). Typically this is the California Maximum Contaminant Level (MCL). Cross check California MCL table updated August 21, 2020.
- (1) RWQCB ESL not defined. For comparison use EPA Regional Screening Level (RSL) Summary Table (TR=1E-06, HQ=1) November 2020 for Total Petroleum Hydrocarbons (Aromatic High)

Samples collected November 12, 2020

All results in milligrams per liter (mg/L), using EPA Method 8015B

- < Compound was not detected above the indicated laboratory Method Detection Limit (MDL)
- J Estimated. Compound below the Practical Quantitation Limit (PQL) but above the MDL

**Bold** Value above laboratory reporting limit

Value exceeds the RWQCB ESLs for their respective constituent

DRO Total Petroleum Hydrocarbons (TPH) as Diesel Range Organics

ORO TPH as Oil Range Organics

GRO TPH as Gasoline Range Organics



**APPENDIX D**  
**SOIL BORING LOGS**

TEST ENVIRONMENTAL INCHES 770651908 NORTH TOWN DATA CAMPUS.GPJ TEMPLATE\_CA-MODIFIED.GDT 7/31/25

| PROJECT:                                                                                                                                                                                      |               | northtown data campus<br>San Jose, California |                        |                   |            | Log of Boring SB-1                                   |                                                                                                                                          | PAGE 1 OF 1 |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------------------------------|------------------------|-------------------|------------|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|-------------|--|
| Boring location: See Site Plan, Figure 2                                                                                                                                                      |               |                                               |                        |                   |            | Logged by: WW / DMRR<br>Drilled By: Trinity          |                                                                                                                                          |             |  |
| Date started: 7/15/25                                                                                                                                                                         |               |                                               | Date finished: 7/15/25 |                   |            |                                                      |                                                                                                                                          |             |  |
| Drilling method: Direct Push (DPT) - GeoProbe                                                                                                                                                 |               |                                               |                        |                   |            |                                                      |                                                                                                                                          |             |  |
| Hammer weight/drop: NA                                                                                                                                                                        |               |                                               | Hammer type: NA        |                   |            |                                                      |                                                                                                                                          |             |  |
| Sampler: Hand Auger (HA) / Macrocore                                                                                                                                                          |               |                                               |                        |                   |            |                                                      |                                                                                                                                          |             |  |
| DEPTH<br>(feet)                                                                                                                                                                               | SAMPLES       |                                               |                        |                   | OVM (ppm)  | LITHOLOGY                                            | MATERIAL DESCRIPTION                                                                                                                     |             |  |
|                                                                                                                                                                                               | Sample Number | Sample                                        | Blow Count             | Recovery (inches) |            |                                                      |                                                                                                                                          |             |  |
| 1                                                                                                                                                                                             | SB-1-1.0      | ●                                             |                        |                   | 0.1<br>0.0 |                                                      | 2.5 inches asphalt<br>Fill to 1 foot                                                                                                     |             |  |
| 2                                                                                                                                                                                             |               |                                               |                        |                   | 0.1        |                                                      | SANDY CLAY (CL)<br>dark brown, medium stiff, dry, slightly plastic, no odor<br><br>sand content increases with depth, trace silt         |             |  |
| 3                                                                                                                                                                                             |               |                                               |                        |                   | 0.1        |                                                      |                                                                                                                                          |             |  |
| 4                                                                                                                                                                                             |               |                                               |                        |                   | 0.1        |                                                      |                                                                                                                                          |             |  |
| 5                                                                                                                                                                                             |               |                                               |                        |                   | 0.1        | CL                                                   | black at 5 feet                                                                                                                          |             |  |
| 6                                                                                                                                                                                             |               |                                               |                        |                   | 0.1        |                                                      |                                                                                                                                          |             |  |
| 7                                                                                                                                                                                             |               |                                               |                        |                   | 0.1        |                                                      |                                                                                                                                          |             |  |
| 8                                                                                                                                                                                             |               |                                               |                        | 60/<br>60"        | 0.1        |                                                      |                                                                                                                                          |             |  |
| 9                                                                                                                                                                                             | SB-1-9.5      | ●                                             |                        |                   | 0.1        |                                                      |                                                                                                                                          |             |  |
| 10                                                                                                                                                                                            |               |                                               |                        |                   | 0.1        |                                                      | CLAY (CL)<br>light brown, wet, slightly plastic, poorly graded, no odor<br>trace clay red mottling<br>Brown, suspended sediment, no odor |             |  |
| 11                                                                                                                                                                                            |               |                                               |                        |                   | 0.0        |                                                      |                                                                                                                                          |             |  |
| 12                                                                                                                                                                                            |               |                                               |                        | 55/<br>60"        | 0.0        | CL                                                   |                                                                                                                                          |             |  |
| 13                                                                                                                                                                                            |               |                                               |                        |                   | 0.0        |                                                      |                                                                                                                                          |             |  |
| 14                                                                                                                                                                                            |               |                                               |                        |                   | 0.1        |                                                      |                                                                                                                                          |             |  |
| 15                                                                                                                                                                                            |               |                                               |                        |                   | 0.0        |                                                      |                                                                                                                                          |             |  |
| 16                                                                                                                                                                                            |               |                                               |                        |                   |            |                                                      |                                                                                                                                          |             |  |
| 17                                                                                                                                                                                            |               |                                               |                        |                   |            |                                                      |                                                                                                                                          |             |  |
| 18                                                                                                                                                                                            |               |                                               |                        |                   |            |                                                      |                                                                                                                                          |             |  |
| 19                                                                                                                                                                                            |               |                                               |                        |                   |            |                                                      |                                                                                                                                          |             |  |
| 20                                                                                                                                                                                            |               |                                               |                        |                   |            |                                                      |                                                                                                                                          |             |  |
| Boring terminated at a depth of 15 feet below ground surface (bgs).<br>Groundwater was encountered at 9.6 feet bgs during drilling. 5 feet of screen.<br>Boring backfilled with cement grout. |               |                                               |                        |                   |            | <div style="text-align: center;"><b>LANGAN</b></div> |                                                                                                                                          |             |  |
| Project No.: 770651908                                                                                                                                                                        |               |                                               |                        |                   |            | Figure: A-1                                          |                                                                                                                                          |             |  |

PROJECT:

northtown data campus  
San Jose, California

## Log of Boring SB-2

PAGE 1 OF 1

Boring location: See Site Plan, Figure 2

Logged by: WW / DMRR  
Drilled By: Trinity

Date started: 7/15/25

Date finished: 7/15/25

Drilling method: Direct Push (DPT) - GeoProbe

Hammer weight/drop: NA

Hammer type: NA

Sampler: Hand Auger (HA) / Macrocore

| DEPTH<br>(feet) | SAMPLES          |        |               |                      | OVM (ppm) | LITHOLOGY | MATERIAL DESCRIPTION                                                              |
|-----------------|------------------|--------|---------------|----------------------|-----------|-----------|-----------------------------------------------------------------------------------|
|                 | Sample<br>Number | Sample | Blow<br>Count | Recovery<br>(inches) |           |           |                                                                                   |
| 1               | SB-2-1.0         | ●      |               |                      | 0.3       |           | 3 inches asphalt<br>Fill to 8 inches                                              |
| 2               |                  |        |               |                      | 0.1       |           |                                                                                   |
| 3               |                  |        |               |                      | 0.2       | CL        |                                                                                   |
| 4               |                  |        |               |                      | 0.2       |           | SANDY CLAY (CL)<br>dark brown, medium stiff, dry, plastic, poorly graded, no odor |
| 5               |                  |        |               |                      | 0.2       |           | Sand content increases at 4 feet                                                  |
| 6               |                  |        |               |                      | 0.0       |           |                                                                                   |
| 7               |                  |        |               |                      | 0.0       |           |                                                                                   |
| 8               |                  |        |               | 60/<br>60"           | 0.0       | SC        |                                                                                   |
| 9               |                  |        |               |                      | 0.0       |           |                                                                                   |
| 10              | SB-2-10.0        | ●      |               |                      | 0.0       |           |                                                                                   |
| 11              |                  |        |               |                      | 0.0       |           |                                                                                   |
| 12              |                  |        |               | 60/<br>60"           | 0.0       |           |                                                                                   |
| 13              |                  |        |               |                      | 0.0       | CL        |                                                                                   |
| 14              |                  |        |               |                      | 0.0       |           |                                                                                   |
| 15              |                  |        |               |                      | 0.0       |           |                                                                                   |
| 16              |                  |        |               |                      |           |           |                                                                                   |
| 17              |                  |        |               |                      |           |           |                                                                                   |
| 18              |                  |        |               |                      |           |           |                                                                                   |
| 19              |                  |        |               |                      |           |           |                                                                                   |
| 20              |                  |        |               |                      |           |           |                                                                                   |

Boring terminated at a depth of 15 feet below ground surface (bgs).  
Groundwater was encountered at 10.75 feet bgs during drilling. 5 feet of  
screen.  
Boring backfilled with cement grout.

**LANGAN**Project No.:  
770651908

Figure:

A-2

TEST ENVIRONMENTAL INCHES 770651908 NORTH TOWN DATA CAMPUS.GPJ TEMPLATE\_CA-MODIFIED.GDT 7/31/25

TEST ENVIRONMENTAL INCHES 770651908 NORTH TOWN DATA CAMPUS.GPJ TEMPLATE\_CA-MODIFIED.GDT 7/31/25

| PROJECT:                                                                                                                                                                                       |               | northtown data campus<br>San Jose, California |                        |                   |           | Log of Boring SB-3                          |                                                                                                                                                                                                       | PAGE 1 OF 1 |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------------------------------|------------------------|-------------------|-----------|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--|
| Boring location: See Site Plan, Figure 2                                                                                                                                                       |               |                                               |                        |                   |           | Logged by: WW / DMRR<br>Drilled By: Trinity |                                                                                                                                                                                                       |             |  |
| Date started: 7/15/25                                                                                                                                                                          |               |                                               | Date finished: 7/15/25 |                   |           |                                             |                                                                                                                                                                                                       |             |  |
| Drilling method: Direct Push (DPT) - GeoProbe                                                                                                                                                  |               |                                               |                        |                   |           |                                             |                                                                                                                                                                                                       |             |  |
| Hammer weight/drop: NA                                                                                                                                                                         |               |                                               |                        | Hammer type: NA   |           |                                             |                                                                                                                                                                                                       |             |  |
| Sampler: Hand Auger (HA) / Macrocore                                                                                                                                                           |               |                                               |                        |                   |           |                                             |                                                                                                                                                                                                       |             |  |
| DEPTH<br>(feet)                                                                                                                                                                                | SAMPLES       |                                               |                        |                   | OVM (ppm) | LITHOLOGY                                   | MATERIAL DESCRIPTION                                                                                                                                                                                  |             |  |
|                                                                                                                                                                                                | Sample Number | Sample                                        | Blow Count             | Recovery (inches) |           |                                             |                                                                                                                                                                                                       |             |  |
| 1                                                                                                                                                                                              | SB-3-1.0      | ●                                             |                        |                   | 0.1       |                                             | 4 inches asphalt<br>Fill to 1 foot                                                                                                                                                                    |             |  |
| 2                                                                                                                                                                                              |               |                                               |                        |                   | 0.0       | CL                                          | SANDY CLAY (CL)<br>dark brown, medium stiff, dry, plastic, no odor                                                                                                                                    |             |  |
| 3                                                                                                                                                                                              |               |                                               |                        |                   | 0.1       |                                             |                                                                                                                                                                                                       |             |  |
| 4                                                                                                                                                                                              |               |                                               |                        |                   | 0.0       |                                             |                                                                                                                                                                                                       |             |  |
| 5                                                                                                                                                                                              |               |                                               |                        |                   | 0.0       |                                             |                                                                                                                                                                                                       |             |  |
| 6                                                                                                                                                                                              |               |                                               |                        |                   | 0.0       | SP                                          | SAND (SP)<br>gray to light brown, medium dense, dry, poorly graded, no odor<br>trace silt fro 7 to 9 feet, trace gravel throughout<br>clay lens at 9 to 10 feet and bottom 2 inches<br>wet at 11 feet |             |  |
| 7                                                                                                                                                                                              |               |                                               |                        |                   | 0.0       |                                             |                                                                                                                                                                                                       |             |  |
| 8                                                                                                                                                                                              |               |                                               |                        |                   | 0.0       |                                             |                                                                                                                                                                                                       |             |  |
| 9                                                                                                                                                                                              |               |                                               |                        |                   | 0.0       |                                             |                                                                                                                                                                                                       |             |  |
| 10                                                                                                                                                                                             | SB-3-10.0     | ●                                             |                        |                   | 0.0       |                                             |                                                                                                                                                                                                       |             |  |
| 11                                                                                                                                                                                             |               |                                               |                        |                   | 0.0       |                                             |                                                                                                                                                                                                       |             |  |
| 12                                                                                                                                                                                             |               |                                               |                        |                   | 0.0       |                                             |                                                                                                                                                                                                       |             |  |
| 13                                                                                                                                                                                             |               |                                               |                        |                   | 0.0       |                                             |                                                                                                                                                                                                       |             |  |
| 14                                                                                                                                                                                             |               |                                               |                        |                   | 0.0       |                                             |                                                                                                                                                                                                       |             |  |
| 15                                                                                                                                                                                             |               |                                               |                        |                   | 0.0       |                                             |                                                                                                                                                                                                       |             |  |
| 16                                                                                                                                                                                             |               |                                               |                        |                   |           |                                             |                                                                                                                                                                                                       |             |  |
| 17                                                                                                                                                                                             |               |                                               |                        |                   |           |                                             |                                                                                                                                                                                                       |             |  |
| 18                                                                                                                                                                                             |               |                                               |                        |                   |           |                                             |                                                                                                                                                                                                       |             |  |
| 19                                                                                                                                                                                             |               |                                               |                        |                   |           |                                             |                                                                                                                                                                                                       |             |  |
| 20                                                                                                                                                                                             |               |                                               |                        |                   |           |                                             |                                                                                                                                                                                                       |             |  |
| Boring terminated at a depth of 15 feet below ground surface (bgs).<br>Groundwater was encountered at 11.2 feet bgs during drilling. 5 feet of screen.<br>Boring backfilled with cement grout. |               |                                               |                        |                   |           |                                             | <div style="text-align: center;"><b>LANGAN</b></div>                                                                                                                                                  |             |  |
| Project No.: 770651908                                                                                                                                                                         |               |                                               |                        |                   |           |                                             | Figure: A-3                                                                                                                                                                                           |             |  |

PROJECT:

northtown data campus  
San Jose, California

## Log of Boring SB-4

PAGE 1 OF 1

Boring location: See Site Plan, Figure 2

Date started: 7/16/25

Date finished: 7/16/25

Logged by: WW / DMRR  
Drilled By: Trinity

Drilling method: Direct Push (DPT) - GeoProbe

Hammer weight/drop: NA

Hammer type: NA

Sampler: Hand Auger (HA) / Macrocore

| DEPTH<br>(feet) | SAMPLES       |        |            |                   | OVM (ppm) | LITHOLOGY | MATERIAL DESCRIPTION                                                                                                                       |
|-----------------|---------------|--------|------------|-------------------|-----------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------|
|                 | Sample Number | Sample | Blow Count | Recovery (inches) |           |           |                                                                                                                                            |
| 1               | SB-4-1.0      | ●      |            |                   | 0.0       |           | 3 inches asphalt<br>Fill to 6 inches                                                                                                       |
| 2               |               |        |            |                   | 0.0       |           |                                                                                                                                            |
| 3               |               |        |            |                   | 0.0       | CL        | CLAY (CL)<br>brown, medium stiff, dry, poorly graded, no odor                                                                              |
| 4               |               |        |            |                   | 0.0       |           |                                                                                                                                            |
| 5               | SB-4-5.0      | ●      |            |                   | 0.0       |           | black coloration through 5'                                                                                                                |
| 6               |               |        |            |                   | 0.0       |           |                                                                                                                                            |
| 7               |               |        |            |                   | 0.0       | SM        | SILTY SAND (SM)<br>yellow-brown, wet, no odor                                                                                              |
| 8               | SB-4-8.5      | ●      |            |                   | 0.0       |           | RF at 8' feet                                                                                                                              |
| 9               |               |        |            |                   | 0.0       |           |  SAND (SP)<br>dry, wet, subrounded, no odor, trace clay |
| 10              |               |        |            |                   | 0.0       |           | no odor, brown, suspended sediment                                                                                                         |
| 11              |               |        |            |                   | 0.0       |           |                                                                                                                                            |
| 12              |               |        |            |                   | 0.0       | SP        |                                                                                                                                            |
| 13              |               |        |            |                   | 0.0       |           |                                                                                                                                            |
| 14              |               |        |            |                   | 0.0       |           |                                                                                                                                            |
| 15              |               |        |            |                   | 0.0       |           |                                                                                                                                            |
| 16              |               |        |            |                   |           |           |                                                                                                                                            |
| 17              |               |        |            |                   |           |           |                                                                                                                                            |
| 18              |               |        |            |                   |           |           |                                                                                                                                            |
| 19              |               |        |            |                   |           |           |                                                                                                                                            |
| 20              |               |        |            |                   |           |           |                                                                                                                                            |

Boring terminated at a depth of 15 feet below ground surface (bgs).  
Groundwater was encountered at 8.5 feet bgs during drilling. 5 feet of screen.  
Boring backfilled with cement grout.

**LANGAN**Project No.:  
770651908

Figure:

A-4

TEST ENVIRONMENTAL INCHES 770651908 NORTH TOWN DATA CAMPUS.GPJ TEMPLATE\_CA-MODIFIED.DGT 7/31/25



TEST ENVIRONMENTAL INCHES 770651908 NORTH TOWN DATA CAMPUS.GPJ TEMPLATE CA-MODIFIED.GDT 7/31/25

| PROJECT:                                                                                                                                                                                     |               | northtown data campus<br>San Jose, California |                        |                   |           | Log of Boring SB-5                          |                                                                                                            | PAGE 1 OF 1 |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------------------------------|------------------------|-------------------|-----------|---------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------|--|
| Boring location: See Site Plan, Figure 2                                                                                                                                                     |               |                                               |                        |                   |           | Logged by: WW / DMRR<br>Drilled By: Trinity |                                                                                                            |             |  |
| Date started: 7/16/25                                                                                                                                                                        |               |                                               | Date finished: 7/16/25 |                   |           |                                             |                                                                                                            |             |  |
| Drilling method: Direct Push (DPT) - GeoProbe                                                                                                                                                |               |                                               |                        |                   |           |                                             |                                                                                                            |             |  |
| Hammer weight/drop: NA                                                                                                                                                                       |               |                                               |                        | Hammer type: NA   |           |                                             |                                                                                                            |             |  |
| Sampler: Hand Auger (HA) / Macrocore                                                                                                                                                         |               |                                               |                        |                   |           |                                             |                                                                                                            |             |  |
| DEPTH<br>(feet)                                                                                                                                                                              | SAMPLES       |                                               |                        |                   | OVM (ppm) | LITHOLOGY                                   | MATERIAL DESCRIPTION                                                                                       |             |  |
|                                                                                                                                                                                              | Sample Number | Sample                                        | Blow Count             | Recovery (inches) |           |                                             |                                                                                                            |             |  |
| 1                                                                                                                                                                                            | SB-5-1.0      | ●                                             |                        |                   | 0.3       |                                             | 3 inches asphalt<br>Fill to 9 inches                                                                       |             |  |
| 2                                                                                                                                                                                            |               |                                               |                        |                   | 0.4       |                                             | SANDY CLAY (CL)<br>black to dark brown at two feet, loose to soft, dry, poorly graded, no odor, trace silt |             |  |
| 3                                                                                                                                                                                            |               |                                               |                        |                   | 0.2       | CL                                          |                                                                                                            |             |  |
| 4                                                                                                                                                                                            |               |                                               |                        |                   | 0.2       |                                             |                                                                                                            |             |  |
| 5                                                                                                                                                                                            | SB-5-5.0      | ●                                             |                        |                   | 0.1       |                                             |                                                                                                            |             |  |
| 6                                                                                                                                                                                            |               |                                               |                        |                   | 0.1       |                                             | CLAYEY SAND (SC)<br>light brown, medium dense, wet, plastic, poorly graded, no odor                        |             |  |
| 7                                                                                                                                                                                            |               |                                               |                        |                   | 0.1       |                                             | clay content increases with depth                                                                          |             |  |
| 8                                                                                                                                                                                            |               |                                               |                        | 55/<br>60"        | 0.1       |                                             |                                                                                                            |             |  |
| 9                                                                                                                                                                                            |               |                                               |                        |                   | 0.0       | SC                                          |                                                                                                            |             |  |
| 10                                                                                                                                                                                           | SB-5-10.0     | ●                                             |                        |                   | 0.0       | ▽                                           | no odor, brown, suspended sediment                                                                         |             |  |
| 11                                                                                                                                                                                           |               |                                               |                        |                   | 0.4       |                                             |                                                                                                            |             |  |
| 12                                                                                                                                                                                           |               |                                               |                        | 58/<br>60"        | 0.1       |                                             |                                                                                                            |             |  |
| 13                                                                                                                                                                                           |               |                                               |                        |                   | 0.1       |                                             | SAND (SP)<br>light brown, dense, wet, poorly graded, no odor                                               |             |  |
| 14                                                                                                                                                                                           |               |                                               |                        |                   | 0.1       | SP                                          | trace clay, trace gravel at bottom 6 inches                                                                |             |  |
| 15                                                                                                                                                                                           |               |                                               |                        |                   | 0.1       |                                             |                                                                                                            |             |  |
| 16                                                                                                                                                                                           |               |                                               |                        |                   |           |                                             |                                                                                                            |             |  |
| 17                                                                                                                                                                                           |               |                                               |                        |                   |           |                                             |                                                                                                            |             |  |
| 18                                                                                                                                                                                           |               |                                               |                        |                   |           |                                             |                                                                                                            |             |  |
| 19                                                                                                                                                                                           |               |                                               |                        |                   |           |                                             |                                                                                                            |             |  |
| 20                                                                                                                                                                                           |               |                                               |                        |                   |           |                                             |                                                                                                            |             |  |
| Boring terminated at a depth of 15 feet below ground surface (bgs).<br>Groundwater was encountered at 10 feet bgs during drilling. 5 feet of screen.<br>Boring backfilled with cement grout. |               |                                               |                        |                   |           |                                             | <div style="text-align: center;"><b>LANGAN</b></div>                                                       |             |  |
| Project No.: 770651908                                                                                                                                                                       |               |                                               |                        |                   |           |                                             | Figure: A-5                                                                                                |             |  |

TEST ENVIRONMENTAL INCHES 770651908 NORTH TOWN DATA CAMPUS.GPJ TEMPLATE CA-MODIFIED.GDT 7/31/25

| PROJECT: northtown data campus<br>San Jose, California                                                                                                             |               |        |                        |                   | <b>Log of Boring SB-6</b><br>PAGE 1 OF 1    |           |                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------|------------------------|-------------------|---------------------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------|
| Boring location: See Site Plan, Figure 2                                                                                                                           |               |        |                        |                   | Logged by: WW / DMRR<br>Drilled By: Trinity |           |                                                                                                                 |
| Date started: 7/16/25                                                                                                                                              |               |        | Date finished: 7/16/25 |                   |                                             |           |                                                                                                                 |
| Drilling method: Hand Auger                                                                                                                                        |               |        |                        |                   |                                             |           |                                                                                                                 |
| Hammer weight/drop: NA                                                                                                                                             |               |        | Hammer type: NA        |                   |                                             |           |                                                                                                                 |
| Sampler: Hand Auger (HA)                                                                                                                                           |               |        |                        |                   |                                             |           |                                                                                                                 |
| DEPTH<br>(feet)                                                                                                                                                    | SAMPLES       |        |                        |                   | OVM (ppm)                                   | LITHOLOGY | MATERIAL DESCRIPTION                                                                                            |
|                                                                                                                                                                    | Sample Number | Sample | Blow Count             | Recovery (Inches) |                                             |           |                                                                                                                 |
| 1                                                                                                                                                                  | SB-6-1.0      | ●      |                        |                   | 0.1                                         |           | 2.5 inches asphalt<br>Fill to 1.5 feet                                                                          |
| 2                                                                                                                                                                  |               |        |                        |                   | 0.2                                         | CL        | CLAY (CL)<br>brown, stiff, dry, poorly graded, no odor, trace silt, RF                                          |
| 3                                                                                                                                                                  |               |        |                        |                   | 0.1                                         |           |                                                                                                                 |
| 4                                                                                                                                                                  |               |        |                        |                   | 0.1                                         | SC        | CLAYEY SAND (SC)<br>dark brown, medium dense to soft, dry, slightly plastic, poorly graded, no odor, trace silt |
| 5                                                                                                                                                                  | SB-6-5.0      | ●      |                        |                   | 0.0                                         |           |                                                                                                                 |
| 6                                                                                                                                                                  |               |        |                        |                   |                                             |           |                                                                                                                 |
| 7                                                                                                                                                                  |               |        |                        |                   |                                             |           |                                                                                                                 |
| 8                                                                                                                                                                  |               |        |                        |                   |                                             |           |                                                                                                                 |
| 9                                                                                                                                                                  |               |        |                        |                   |                                             |           |                                                                                                                 |
| 10                                                                                                                                                                 |               |        |                        |                   |                                             |           |                                                                                                                 |
| 11                                                                                                                                                                 |               |        |                        |                   |                                             |           |                                                                                                                 |
| 12                                                                                                                                                                 |               |        |                        |                   |                                             |           |                                                                                                                 |
| 13                                                                                                                                                                 |               |        |                        |                   |                                             |           |                                                                                                                 |
| 14                                                                                                                                                                 |               |        |                        |                   |                                             |           |                                                                                                                 |
| 15                                                                                                                                                                 |               |        |                        |                   |                                             |           |                                                                                                                 |
| 16                                                                                                                                                                 |               |        |                        |                   |                                             |           |                                                                                                                 |
| 17                                                                                                                                                                 |               |        |                        |                   |                                             |           |                                                                                                                 |
| 18                                                                                                                                                                 |               |        |                        |                   |                                             |           |                                                                                                                 |
| 19                                                                                                                                                                 |               |        |                        |                   |                                             |           |                                                                                                                 |
| 20                                                                                                                                                                 |               |        |                        |                   |                                             |           |                                                                                                                 |
| Boring terminated at a depth of 5 feet below ground surface (bgs).<br>Groundwater was not encountered at time of drilling.<br>Boring backfilled with cement grout. |               |        |                        |                   |                                             |           | <div><b>LANGAN</b></div> <div>         Project No.: 770651908      Figure: A-6       </div>                     |

TEST ENVIRONMENTAL INCHES 770651908 NORTH TOWN DATA CAMPUS.GPJ TEMPLATE\_CA-MODIFIED.GDT 7/31/25

|                                                                                                                                                                    |               |        |                        |                   |                      |                     |                                                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------|------------------------|-------------------|----------------------|---------------------|-----------------------------------------------------------------------------------|
| PROJECT: northtown data campus<br>San Jose, California                                                                                                             |               |        |                        |                   | Log of Boring SB-7   |                     |                                                                                   |
| Boring location: See Site Plan, Figure 2                                                                                                                           |               |        |                        |                   | Logged by: WW / DMRR |                     |                                                                                   |
| Date started: 7/16/25                                                                                                                                              |               |        | Date finished: 7/16/25 |                   |                      | Drilled By: Trinity |                                                                                   |
| Drilling method: Hand Auger                                                                                                                                        |               |        |                        |                   |                      |                     |                                                                                   |
| Hammer weight/drop: NA                                                                                                                                             |               |        |                        | Hammer type: NA   |                      |                     |                                                                                   |
| Sampler: Hand Auger (HA)                                                                                                                                           |               |        |                        |                   |                      |                     |                                                                                   |
| DEPTH<br>(feet)                                                                                                                                                    | SAMPLES       |        |                        |                   | OVM (ppm)            | LITHOLOGY           | MATERIAL DESCRIPTION                                                              |
|                                                                                                                                                                    | Sample Number | Sample | Blow Count             | Recovery (Inches) |                      |                     |                                                                                   |
| 1                                                                                                                                                                  | SB-7-1.0      | ●      |                        |                   | 0.2                  | SP                  | SAND (SP)<br>brown, loose, dry, poorly graded, no odor, trace silt, rf at surface |
| 2                                                                                                                                                                  |               |        |                        |                   | 0.1                  |                     |                                                                                   |
| 3                                                                                                                                                                  |               |        |                        |                   | 0.1                  |                     |                                                                                   |
| 4                                                                                                                                                                  |               |        |                        |                   | 0.1                  |                     | trace clay at bottom 1 foot                                                       |
| 5                                                                                                                                                                  | SB-7-5.0      | ●      |                        |                   | 0.1                  |                     |                                                                                   |
| 6                                                                                                                                                                  |               |        |                        |                   |                      |                     |                                                                                   |
| 7                                                                                                                                                                  |               |        |                        |                   |                      |                     |                                                                                   |
| 8                                                                                                                                                                  |               |        |                        |                   |                      |                     |                                                                                   |
| 9                                                                                                                                                                  |               |        |                        |                   |                      |                     |                                                                                   |
| 10                                                                                                                                                                 |               |        |                        |                   |                      |                     |                                                                                   |
| 11                                                                                                                                                                 |               |        |                        |                   |                      |                     |                                                                                   |
| 12                                                                                                                                                                 |               |        |                        |                   |                      |                     |                                                                                   |
| 13                                                                                                                                                                 |               |        |                        |                   |                      |                     |                                                                                   |
| 14                                                                                                                                                                 |               |        |                        |                   |                      |                     |                                                                                   |
| 15                                                                                                                                                                 |               |        |                        |                   |                      |                     |                                                                                   |
| 16                                                                                                                                                                 |               |        |                        |                   |                      |                     |                                                                                   |
| 17                                                                                                                                                                 |               |        |                        |                   |                      |                     |                                                                                   |
| 18                                                                                                                                                                 |               |        |                        |                   |                      |                     |                                                                                   |
| 19                                                                                                                                                                 |               |        |                        |                   |                      |                     |                                                                                   |
| 20                                                                                                                                                                 |               |        |                        |                   |                      |                     |                                                                                   |
| Boring terminated at a depth of 5 feet below ground surface (bgs).<br>Groundwater was not encountered at time of drilling.<br>Boring backfilled with cement grout. |               |        |                        |                   |                      |                     | <b>LANGAN</b>                                                                     |
| Project No.: 770651908                                                                                                                                             |               |        |                        |                   |                      | Figure: A-7         |                                                                                   |

PROJECT: northtown data campus  
San Jose, California

## Log of Boring SB-8

PAGE 1 OF 1

Boring location: See Site Plan, Figure 2

Date started: 7/16/25

Date finished: 7/16/25

Logged by: WW / DMRR  
Drilled By: Trinity

Drilling method: Hand Auger

Hammer weight/drop: NA

Hammer type: NA

Sampler: Hand Auger (HA)

| DEPTH<br>(feet) | SAMPLES          |        |               |                      | OVM (ppm) | LITHOLOGY | MATERIAL DESCRIPTION                                                   |
|-----------------|------------------|--------|---------------|----------------------|-----------|-----------|------------------------------------------------------------------------|
|                 | Sample<br>Number | Sample | Blow<br>Count | Recovery<br>(Inches) |           |           |                                                                        |
| 1               | SB-8-1.0         | ●      |               |                      | 0.1       |           | 3 inches asphalt<br>Fill to 6 inches                                   |
| 2               |                  |        |               |                      | 61        |           | CLAYEY SAND (SC)                                                       |
| 3               |                  |        |               |                      | 393       | SC        | dark brown, loose, dry, slightly plastic, poorly graded, no odor       |
| 4               |                  |        |               |                      |           |           |                                                                        |
| 5               | SB-8-5.0         | ●      |               |                      | 366       |           | red/black mottling 4 feet to 5 feet, clay content increases with depth |
| 6               |                  |        |               |                      |           |           |                                                                        |
| 7               |                  |        |               |                      |           |           |                                                                        |
| 8               |                  |        |               |                      |           |           |                                                                        |
| 9               |                  |        |               |                      |           |           |                                                                        |
| 10              |                  |        |               |                      |           |           |                                                                        |
| 11              |                  |        |               |                      |           |           |                                                                        |
| 12              |                  |        |               |                      |           |           |                                                                        |
| 13              |                  |        |               |                      |           |           |                                                                        |
| 14              |                  |        |               |                      |           |           |                                                                        |
| 15              |                  |        |               |                      |           |           |                                                                        |
| 16              |                  |        |               |                      |           |           |                                                                        |
| 17              |                  |        |               |                      |           |           |                                                                        |
| 18              |                  |        |               |                      |           |           |                                                                        |
| 19              |                  |        |               |                      |           |           |                                                                        |
| 20              |                  |        |               |                      |           |           |                                                                        |

Boring terminated at a depth of 5 feet below ground surface (bgs).  
Groundwater was not encountered at time of drilling.  
Boring backfilled with cement grout.

**LANGAN**

Project No.:  
770651908

Figure:

A-8

TEST ENVIRONMENTAL INCHES 770651908 NORTH TOWN DATA CAMPUS.GPJ TEMPLATE\_CA-MODIFIED.GDT 7/31/25

TEST ENVIRONMENTAL INCHES 770651908 NORTH TOWN DATA CAMPUS.GPJ TEMPLATE\_CA-MODIFIED.GDT 7/31/25

| PROJECT: northtown data campus<br>San Jose, California |                                                                                                                                                                    |        |            |                        |           | Log of Boring SB-9   |                                                                                                    |
|--------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------|------------------------|-----------|----------------------|----------------------------------------------------------------------------------------------------|
| Boring location: See Site Plan, Figure 2               |                                                                                                                                                                    |        |            |                        |           | Logged by: WW / DMRR |                                                                                                    |
| Date started: 7/16/25                                  |                                                                                                                                                                    |        |            | Date finished: 7/16/25 |           | Drilled By: Trinity  |                                                                                                    |
| Drilling method: Hand Auger                            |                                                                                                                                                                    |        |            |                        |           |                      |                                                                                                    |
| Hammer weight/drop: NA                                 |                                                                                                                                                                    |        |            | Hammer type: NA        |           |                      |                                                                                                    |
| Sampler: Hand Auger (HA)                               |                                                                                                                                                                    |        |            |                        |           |                      |                                                                                                    |
| DEPTH<br>(feet)                                        | SAMPLES                                                                                                                                                            |        |            |                        | OVM (ppm) | LITHOLOGY            | MATERIAL DESCRIPTION                                                                               |
|                                                        | Sample Number                                                                                                                                                      | Sample | Blow Count | Recovery (Inches)      |           |                      |                                                                                                    |
| 1                                                      | SB-9-1.0                                                                                                                                                           | ●      |            |                        | 176       |                      | 3 inches asphalt<br>Fill to 10 inches                                                              |
| 2                                                      |                                                                                                                                                                    |        |            |                        | 0.2       | SC                   | CLAYEY SAND (SC)<br>brown to black at 4 feet, loose, dry, slightly plastic, poorly graded, no odor |
| 3                                                      |                                                                                                                                                                    |        |            |                        | 3.5       |                      |                                                                                                    |
| 4                                                      |                                                                                                                                                                    |        |            |                        |           |                      |                                                                                                    |
| 5                                                      | SB-9-5.0                                                                                                                                                           | ●      |            |                        | 0.0       |                      | red/black mottling 4 feet to 5 feet, clay content increases with depth                             |
| 6                                                      |                                                                                                                                                                    |        |            |                        |           |                      |                                                                                                    |
| 7                                                      |                                                                                                                                                                    |        |            |                        |           |                      |                                                                                                    |
| 8                                                      |                                                                                                                                                                    |        |            |                        |           |                      |                                                                                                    |
| 9                                                      |                                                                                                                                                                    |        |            |                        |           |                      |                                                                                                    |
| 10                                                     |                                                                                                                                                                    |        |            |                        |           |                      |                                                                                                    |
| 11                                                     |                                                                                                                                                                    |        |            |                        |           |                      |                                                                                                    |
| 12                                                     |                                                                                                                                                                    |        |            |                        |           |                      |                                                                                                    |
| 13                                                     |                                                                                                                                                                    |        |            |                        |           |                      |                                                                                                    |
| 14                                                     |                                                                                                                                                                    |        |            |                        |           |                      |                                                                                                    |
| 15                                                     |                                                                                                                                                                    |        |            |                        |           |                      |                                                                                                    |
| 16                                                     |                                                                                                                                                                    |        |            |                        |           |                      |                                                                                                    |
| 17                                                     |                                                                                                                                                                    |        |            |                        |           |                      |                                                                                                    |
| 18                                                     |                                                                                                                                                                    |        |            |                        |           |                      |                                                                                                    |
| 19                                                     |                                                                                                                                                                    |        |            |                        |           |                      |                                                                                                    |
| 20                                                     | Boring terminated at a depth of 5 feet below ground surface (bgs).<br>Groundwater was not encountered at time of drilling.<br>Boring backfilled with cement grout. |        |            |                        |           |                      |               |
| Project No.: 770651908                                 |                                                                                                                                                                    |        |            |                        |           | Figure: A-9          |                                                                                                    |



## UNIFIED SOIL CLASSIFICATION SYSTEM

| Major Divisions                                                              |                                                                          | Symbols   | Typical Names                                                                        |
|------------------------------------------------------------------------------|--------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------|
| <b>Coarse-Grained Soils</b><br>(more than half of soil > no. 200 sieve size) | <b>Gravels</b><br>(More than half of coarse fraction > no. 4 sieve size) | <b>GW</b> | Well-graded gravels or gravel-sand mixtures, little or no fines                      |
|                                                                              |                                                                          | <b>GP</b> | Poorly-graded gravels or gravel-sand mixtures, little or no fines                    |
|                                                                              |                                                                          | <b>GM</b> | Silty gravels, gravel-sand-silt mixtures                                             |
|                                                                              |                                                                          | <b>GC</b> | Clayey gravels, gravel-sand-clay mixtures                                            |
|                                                                              | <b>Sands</b><br>(More than half of coarse fraction < no. 4 sieve size)   | <b>SW</b> | Well-graded sands or gravelly sands, little or no fines                              |
|                                                                              |                                                                          | <b>SP</b> | Poorly-graded sands or gravelly sands, little or no fines                            |
|                                                                              |                                                                          | <b>SM</b> | Silty sands, sand-silt mixtures                                                      |
|                                                                              |                                                                          | <b>SC</b> | Clayey sands, sand-clay mixtures                                                     |
| <b>Fine -Grained Soils</b><br>(more than half of soil < no. 200 sieve size)  | <b>Silts and Clays</b><br>LL = < 50                                      | <b>ML</b> | Inorganic silts and clayey silts of low plasticity, sandy silts, gravelly silts      |
|                                                                              |                                                                          | <b>CL</b> | Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, lean clays |
|                                                                              |                                                                          | <b>OL</b> | Organic silts and organic silt-clays of low plasticity                               |
|                                                                              | <b>Silts and Clays</b><br>LL = > 50                                      | <b>MH</b> | Inorganic silts of high plasticity                                                   |
|                                                                              |                                                                          | <b>CH</b> | Inorganic clays of high plasticity, fat clays                                        |
|                                                                              |                                                                          | <b>OH</b> | Organic silts and clays of high plasticity                                           |
| <b>Highly Organic Soils</b>                                                  |                                                                          | <b>PT</b> | Peat and other highly organic soils                                                  |

### SAMPLE DESIGNATIONS/SYMBOLS

| GRAIN SIZE CHART                 |                                       |                                 |
|----------------------------------|---------------------------------------|---------------------------------|
| Classification                   | Range of Grain Sizes                  |                                 |
|                                  | U.S. Standard Sieve Size              | Grain Size in Millimeters       |
| Boulders                         | Above 12"                             | Above 305                       |
| Cobbles                          | 12" to 3"                             | 305 to 76.2                     |
| Gravel<br>coarse<br>fine         | 3" to No. 4                           | 76.2 to 4.76                    |
|                                  | 3" to 3/4"<br>3/4" to No. 4           | 76.2 to 19.1<br>19.1 to 4.76    |
| Sand<br>coarse<br>medium<br>fine | No. 4 to No. 200                      | 4.76 to 0.075                   |
|                                  | No. 4 to No. 10                       | 4.76 to 2.00                    |
|                                  | No. 10 to No. 40<br>No. 40 to No. 200 | 2.00 to 0.420<br>0.420 to 0.075 |
| Silt and Clay                    | Below No. 200                         | Below 0.075                     |

 Unstabilized groundwater level

 Stabilized groundwater level

PP = Pocket Penetrometer

TV = Torvane

|                                                                                     |                                                                                                                                                                   |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | Sample taken with Sprague & Henwood split-barrel sampler with a 3.0-inch outside diameter and a 2.43-inch inside diameter. Darkened area indicates soil recovered |
|    | Classification sample taken with Standard Penetration Test sampler                                                                                                |
|   | Undisturbed sample taken with thin-walled tube                                                                                                                    |
|  | Disturbed sample                                                                                                                                                  |
|  | Sampling attempted with no recovery                                                                                                                               |
|  | Core sample                                                                                                                                                       |
|  | Analytical laboratory sample                                                                                                                                      |
|  | Sample taken with Direct Push or Drive sampler                                                                                                                    |
|  | Sonic                                                                                                                                                             |

### SAMPLER TYPE

C Core barrel

CA California split-barrel sampler with 2.5-inch outside diameter and a 1.93-inch inside diameter

D&M Dames & Moore piston sampler using 2.5-inch outside diameter, thin-walled tube

O Osterberg piston sampler using 3.0-inch outside diameter, thin-walled Shelby tube

PT Pitcher tube sampler using 3.0-inch outside diameter, thin-walled Shelby tube

S&H Sprague & Henwood split-barrel sampler with a 3.0-inch outside diameter and a 2.43-inch inside diameter

SPT Standard Penetration Test (SPT) split-barrel sampler with a 2.0-inch outside diameter and a 1.38- or 1.5-inch inside diameter - see report text

ST Shelby Tube (3.0-inch outside diameter, thin-walled tube) advanced with hydraulic pressure

# LANGAN

Langan CA, Inc.  
1 Almaden Boulevard, Suite 590  
San Jose, CA 95113

T: 408.283.3600 F: 408.283.3601 www.langan.com

Project

**NORTHTOWN DATA  
CAMPUS**

**SAN JOSE**

**SANTA CLARA COUNTY CALIFORNIA**

Figure Title

**SOIL CLASSIFICATION  
CHART**

Project No.  
770651908

Date  
07/31/2025

Drawn By  
AG

Checked By  
WW

Figure

A-10

**APPENDIX E**  
**GROUNDWATER SAMPLING FIELD SHEETS**

# WELL PURGING-FIELD WATER QUALITY MEASUREMENT FORM

Project Number: 770651908

Project Name: Northtown Data Campus

Well ID: SB-1Date: 7/15/25

**Weather:** Sunny, 58-80°F

Field Personnel: Wilma Wei, Nelson Pi, Dulce M Rodriguez Rivera

Depth to Water: 9.6'

Total Depth of Well: 15'

Well Diameter: 2"

Depth to: 10' (top)/ 15' (bottom) of screen

Purging Device: Peristaltic Pump

Total Volume Purged: ~ 3 gallons

[illegible]

### Stabilization Criteria

---

3%

---

3%

 $\pm 0.1$  $\pm 10\text{mV}$ 

10%

10%

Remarks:

1. Pump Dial Setting (e.g., hertz, cycles/min, etc)

**LANGAN**

# WELL PURGING-FIELD WATER QUALITY MEASUREMENT FORM

Project Number: 770651908

Project Name: Northtown Data Campus

Well ID: SB-2

Date: 7/15/25

**Weather:** Sunny, 58-80°F

**Field Personnel:** Wilma Wei, Nelson Pi, Dulce M Rodriguez Rivera

Depth to Water: 10.75'

Total Depth of Well: 15'

Well Diameter: 2"

Depth to: 10' (top)/ 15' (bottom) of screen

Purging Device: Peristaltic Pump

Total Volume Purged: ~ 9 gallons

[illegible]

### Stabilization Criteria

---

3%

---

3%

 $\pm 0.1$  $\pm 10\text{mV}$ 

10%

10%

Remarks:

1. Pump Dial Setting (e.g., hertz, cycles/min, etc)

**LANGAN**

# WELL PURGING-FIELD WATER QUALITY MEASUREMENT FORM

Project Number: 770651908  
 Project Name: Northtown Data Campus  
 Well ID: SB-3  
 Date: 7/15/25  
 Weather: Sunny, 58-80°F  
 Field Personnel: Wilma Wei, Nelson Pi

Depth to Water: 11.2'  
 Total Depth of Well: 15'  
 Well Diameter: 2"  
 Depth to: 10' (top)/ 15' (bottom) of screen  
 Purging Device: Peristaltic Pump  
 Total Volume Purged: ~ 2.5 gallons

| TIME | WATER DEPTH      | PUMP DIAL <sup>1</sup> | PURGE RATE (mL/min) | CUMUL VOL REMOVED | TEMP (°C) | COND (mS/cm) | pH (units) | ORP (mV) | DO (mg/L) | Turbidity (NTU) | REMARKS (color, sediment, odor)    |
|------|------------------|------------------------|---------------------|-------------------|-----------|--------------|------------|----------|-----------|-----------------|------------------------------------|
| 1536 | 11.2'            |                        | ~270                | 0.75 gallons      | 23.1      | 1401         | 7.57       | 109.3    | 2.19      | 3250            | Suspended sediment, brown, no odor |
| 1543 | 11.1'            |                        | ~570                | ~1.25 gallon      | 23.0      | 1395         | 7.16       | 98.8     | 2.13      | 2739            |                                    |
| 1548 | 11.2'            |                        | ↓                   | ~2 gallons        | 22.4      | 1416         | 7.13       | 91.0     | 1.46      | 1486            | ↓                                  |
| 1553 |                  |                        | ~380                | ~2.5 gallons      | 22.4      |              |            | 86       | 1.38      | 1332            |                                    |
| 1554 | SAMPLE COLLECTED |                        |                     |                   |           |              |            |          |           |                 | ↓                                  |
|      |                  |                        |                     |                   |           |              |            |          |           |                 |                                    |
|      |                  |                        |                     |                   |           |              |            |          |           |                 |                                    |
|      |                  |                        |                     |                   |           |              |            |          |           |                 |                                    |
|      |                  |                        |                     |                   |           |              |            |          |           |                 |                                    |
|      |                  |                        |                     |                   |           |              |            |          |           |                 |                                    |
|      |                  |                        |                     |                   |           |              |            |          |           |                 |                                    |
|      |                  |                        |                     |                   |           |              |            |          |           |                 |                                    |
|      |                  |                        |                     |                   |           |              |            |          |           |                 |                                    |
|      |                  |                        |                     |                   |           |              |            |          |           |                 |                                    |

Stabilization Criteria 3% 3% ± 0.1 ± 10mV 10% 10%

Remarks:

- Pump Dial Setting (e.g., hertz, cycles/min, etc)

**LANGAN**

# WELL PURGING-FIELD WATER QUALITY MEASUREMENT FORM

Project Number: 770651908  
 Project Name: Northtown Data Campus  
 Well ID: SB-4  
 Date: 7/16/25  
 Weather: Sunny, 58-75°F  
 Field Personnel: Wilma Wei, Nelson Pi, Dulce M Rodriguez Rivera

Depth to Water: 8.5'  
 Total Depth of Well: 15'  
 Well Diameter: 2"  
 Depth to: 10' (top)/ 15' (bottom) of screen  
 Purging Device: Peristaltic Pump  
 Total Volume Purged: ~ 3.5 gallons

| TIME | WATER DEPTH      | PUMP DIAL <sup>1</sup> | PURGE RATE (mL/min) | CUMUL VOL REMOVED | TEMP (°C) | COND (mS/cm) | pH (units) | ORP (mV) | DO (mg/L) | Turbidity (NTU) | REMARKS (color, sediment, odor)    |
|------|------------------|------------------------|---------------------|-------------------|-----------|--------------|------------|----------|-----------|-----------------|------------------------------------|
| 1101 | 8.49'            |                        | ~1250               | 0 gallons         | 22.9      | 1057         | 7.22       | -67.9    | 0.47      | 390             | Suspended sediment, brown, no odor |
| 1104 | 8.50'            |                        | ↓                   | ~1 gallon         | 22.9      | 1057         | 7.18       | -118.8   | 0.45      | 591             |                                    |
| 1109 | 8.45'            |                        | ~1540               | ~3.25 gallons     | 22.8      | 1057         | 7.18       | -171.9   | 0.41      | 729             |                                    |
| 1111 | SAMPLE COLLECTED |                        |                     |                   |           |              |            |          |           |                 | ↓                                  |
|      |                  |                        |                     |                   |           |              |            |          |           |                 |                                    |
|      |                  |                        |                     |                   |           |              |            |          |           |                 |                                    |
|      |                  |                        |                     |                   |           |              |            |          |           |                 |                                    |
|      |                  |                        |                     |                   |           |              |            |          |           |                 |                                    |
|      |                  |                        |                     |                   |           |              |            |          |           |                 |                                    |
|      |                  |                        |                     |                   |           |              |            |          |           |                 |                                    |
|      |                  |                        |                     |                   |           |              |            |          |           |                 |                                    |
|      |                  |                        |                     |                   |           |              |            |          |           |                 |                                    |
|      |                  |                        |                     |                   |           |              |            |          |           |                 |                                    |
|      |                  |                        |                     |                   |           |              |            |          |           |                 |                                    |
|      |                  |                        |                     |                   |           |              |            |          |           |                 |                                    |
|      |                  |                        |                     |                   |           |              |            |          |           |                 |                                    |
|      |                  |                        |                     |                   |           |              |            |          |           |                 |                                    |
|      |                  |                        |                     |                   |           |              |            |          |           |                 |                                    |
|      |                  |                        |                     |                   |           |              |            |          |           |                 |                                    |
|      |                  |                        |                     |                   |           |              |            |          |           |                 |                                    |
|      |                  |                        |                     |                   |           |              |            |          |           |                 |                                    |
|      |                  |                        |                     |                   |           |              |            |          |           |                 |                                    |

Stabilization Criteria 3% 3% ± 0.1 ± 10mV 10% 10%

Remarks:  
 1. Pump Dial Setting (e.g., hertz, cycles/min, etc)





# WELL PURGING-FIELD WATER QUALITY MEASUREMENT FORM

Project Number: 770651908

Project Name: Northtown Data Campus

Well ID: SB-5

Date: 7/16/25

**Weather:** Sunny, 58-75°F

**Field Personnel:** Wilma Wei, Nelson Pi, Dulce M Rodriguez Rivera

Depth to Water: 10'

Total Depth of Well: 15'

Well Diameter: 1"

Depth to: 10' (top)/ 15' (bottom) of screen

Purging Device: Peristaltic Pump

Total Volume Purged: ~ 3.5 gallons

[illegible]

### Stabilization Criteria

---

3%

---

3%

 $\pm 0.1$  $\pm 10\text{mV}$ 

10%

10%

Remarks:

1. Pump Dial Setting (e.g., hertz, cycles/min, etc)

**LANGAN**

**APPENDIX F**  
**LABORATORY ANALYTICAL RESULTS**



# McC Campbell Analytical, Inc.

"When Quality Counts"

## Analytical Report

**WorkOrder:** 2507A49

**Report Created for:** Langan

1 Almaden Blvd, Suite 590  
San Jose, CA 95113

**Project Contact:** Nelson Pi

**Project P.O.:**

**Project:** 770651908; Northtown Campus

**Project Location:**

**Project Received:** 07/17/2025

Analytical Report reviewed & approved for release on 07/22/2025 by:

Tracy Babjar  
Project Manager

*The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current regulatory standards, where applicable, unless otherwise stated.*





## Glossary of Terms & Qualifier Definitions

**Client:** Langan

**WorkOrder:** 2507A49

**Project:** 770651908; Northtown Campus

### Glossary Abbreviation

|                |                                                                                                        |
|----------------|--------------------------------------------------------------------------------------------------------|
| %D             | Serial Dilution Percent Difference                                                                     |
| 95% Interval   | 95% Confident Interval                                                                                 |
| CCV            | Continuing Calibration Verification.                                                                   |
| CCV REC (%)    | % recovery of Continuing Calibration Verification.                                                     |
| CPT            | Consumer Product Testing not NELAP Accredited                                                          |
| DF             | Dilution Factor                                                                                        |
| DI WET         | (DISTLC) Waste Extraction Test using DI water                                                          |
| DISS           | Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)                             |
| DLT            | Dilution Test (Serial Dilution)                                                                        |
| DUP            | Duplicate                                                                                              |
| EDL            | Estimated Detection Limit                                                                              |
| ERS            | External reference sample. Second source calibration verification.                                     |
| ITEF           | International Toxicity Equivalence Factor                                                              |
| LCS            | Laboratory Control Sample                                                                              |
| LCS2           | Second LCS for the batch. Spike level is lower than that for the first LCS; applicable to method 1633. |
| LQL            | Lowest Quantitation Level                                                                              |
| MB             | Method Blank                                                                                           |
| MB IS/SS % Rec | % Recovery of Internal Standard or Surrogate in Method Blank, if applicable                            |
| MB SS % Rec    | % Recovery of Surrogate in Method Blank, if applicable                                                 |
| MDL            | Method Detection Limit <sup>1</sup>                                                                    |
| ML             | Minimum Level of Quantitation                                                                          |
| MS             | Matrix Spike                                                                                           |
| MSD            | Matrix Spike Duplicate                                                                                 |
| NA             | Not Applicable                                                                                         |
| ND             | Not detected at or above the indicated MDL or RL                                                       |
| NR             | Data Not Reported due to matrix interference or insufficient sample amount.                            |
| PDS            | Post Digestion Spike                                                                                   |
| PF             | Prep Factor                                                                                            |
| RD             | Relative Difference                                                                                    |
| RL             | Reporting Limit <sup>2</sup>                                                                           |
| RPD            | Relative Percent Difference                                                                            |
| RRT            | Relative Retention Time                                                                                |
| RSD            | Relative Standard Deviation                                                                            |
| SNR            | Surrogate is diluted out of the calibration range                                                      |

<sup>1</sup> MDL is the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. Definition and Procedure for the Determination of the Method Detection Limit, Revision 2, 40CFR, Part 136, Appendix B, EPA 821-R-16-006, December 2016. Values are based upon our default extraction volume/amount and are subject to change.

<sup>2</sup> RL is the lowest level that can be reliably determined within specified limits of precision and accuracy during routine laboratory operating conditions. (The RL cannot be lower than the lowest calibration standard used in the initial calibration of the instrument and must be greater than the MDL.) Values are based upon our default extraction volume/amount and are subject to change.



## Glossary of Terms & Qualifier Definitions

**Client:** Langan

**WorkOrder:** 2507A49

**Project:** 770651908; Northtown Campus

|            |                                                                                                                                                    |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| SPK Val    | Spike Value                                                                                                                                        |
| SPKRef Val | Spike Reference Value                                                                                                                              |
| SPLP       | Synthetic Precipitation Leachate Procedure                                                                                                         |
| ST         | Sorbent Tube                                                                                                                                       |
| TCLP       | Toxicity Characteristic Leachate Procedure                                                                                                         |
| TEQ        | Toxicity Equivalents                                                                                                                               |
| TNTC       | "Too Numerous to Count;" greater than 250 colonies observed on the plate.                                                                          |
| TZA        | TimeZone Net Adjustment for sample collected outside of MAI's Coordinated Universal Time (UTC). (Adjustment for Daylight Saving is not accounted.) |
| WET (STLC) | Waste Extraction Test (Soluble Threshold Limit Concentration)                                                                                      |

### Analytical Qualifiers

|    |                                                                                                                  |
|----|------------------------------------------------------------------------------------------------------------------|
| B  | Analyte detected in the associated Method Blank at a concentration greater than 1/10 the reported sample result. |
| J  | Result is less than the RL/ML but greater than the MDL. The reported concentration is an estimated value.        |
| S  | Surrogate recovery outside accepted recovery limits.                                                             |
| a3 | Sample diluted due to high organic content interfering with quantitative/or qualitative analysis.                |
| b1 | Aqueous sample that contains greater than ~1 vol. % sediment                                                     |
| c2 | Surrogate recovery outside of the control limits due to suspected matrix interference.                           |

### Quality Control Qualifiers

|    |                                                                                                                                       |
|----|---------------------------------------------------------------------------------------------------------------------------------------|
| F5 | LCS/LCSD recovery is outside of acceptance limits; however, the data is acceptable based upon the TNI allowable marginal exceedances. |
|----|---------------------------------------------------------------------------------------------------------------------------------------|



## Glossary of Terms & Qualifier Definitions

**Client:** Langan

**WorkOrder:** 2507A49

**Project:** 770651908; Northtown Campus

### PFAS Analytes

|                                                     | <u>Abbreviation</u> | <u>CAS</u>  |
|-----------------------------------------------------|---------------------|-------------|
| 10:2 Fluorotelomer Sulfonic Acid                    | 10:2 FTS            | 120226-60-0 |
| 11-chloroeicosafluoro-3-oxaundecane-1-sulfonic Acid | 11CIPF3OUdS         | 763051-92-9 |
| 2H,2H,3H,3H-Perfluorodecanoic Acid                  | 7:3 FTCA            | 812-70-4    |
| 2H,2H,3H,3H-Perfluorohexanoic Acid                  | 3:3 FTCA            | 356-02-5    |
| 2H,2H,3H,3H-Perfluorooctanoic Acid                  | 5:3 FTCA            | 914637-49-3 |
| 4,8-dioxa-3H-perfluorononanoic Acid                 | ADONA               | 919005-14-4 |
| 4:2 Fluorotelomer Sulfonic Acid                     | 4:2 FTS             | 757124-72-4 |
| 6:2 Fluorotelomer Sulfonic Acid                     | 6:2 FTS             | 27619-97-2  |
| 8:2 Fluorotelomer Sulfonic Acid                     | 8:2 FTS             | 39108-34-4  |
| 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic Acid  | 9CIPF3ONS           | 756426-58-1 |
| Hexafluoropropylene Oxide Dimer Acid                | HFPO-DA             | 13252-13-6  |
| N-Ethyl perfluorooctane sulfonamide                 | EtFOSA              | 4151-50-2   |
| N-ethyl perfluorooctane sulfonamido ethanol         | EtFOSE              | 1691-99-2   |
| N-ethyl perfluorooctanesulfonamidoacetic Acid       | NEtFOSAA            | 2991-50-6   |
| N-Methyl perfluorooctane sulfonamide                | MeFOSA              | 31506-32-8  |
| N-Methyl perfluorooctane sulfonamido ethanol        | MeFOSE              | 24448-09-7  |
| N-methyl perfluorooctanesulfonamidoacetic Acid      | NMeFOSAA            | 2355-31-9   |
| Nonafluoro-3,6-dioxaheptanoic Acid                  | NFDHA               | 151772-58-6 |
| Perfluoro(2-ethoxyethane) sulfonic Acid             | PFEESA              | 113507-82-7 |
| Perfluoro-3-methoxypropanoic Acid                   | PFMPA               | 377-73-1    |
| Perfluoro-4-methoxybutanoic Acid                    | PFMBA               | 863090-89-5 |
| Perfluorobutane sulfonic Acid                       | PFBS                | 375-73-5    |
| Perfluorobutanoic Acid                              | PFBA                | 375-22-4    |
| Perfluorodecane Sulfonic Acid                       | PFDS                | 335-77-3    |
| Perfluorodecanoic Acid                              | PFDA                | 335-76-2    |
| Perfluorododecanoic Acid                            | PFDaA               | 307-55-1    |
| Perfluoroheptane Sulfonic Acid                      | PFHpS               | 375-92-8    |
| Perfluoroheptanoic Acid                             | PFHpA               | 375-85-9    |
| Perfluorohexadecanoic Acid                          | PFHxDA              | 67905-19-5  |
| Perfluorohexane sulfonic Acid                       | PFHxS               | 355-46-4    |
| Perfluorohexanoic Acid                              | PFHxA               | 307-24-4    |
| Perfluorononane Sulfonic Acid                       | PFNS                | 68259-12-1  |
| Perfluorononanoic Acid                              | PFNA                | 375-95-1    |
| Perfluorooctadecanoic Acid                          | PFODA               | 16517-11-6  |
| Perfluorooctane Sulfonamide                         | PFOSA               | 754-91-6    |
| Perfluorooctane Sulfonic Acid                       | PFOS                | 1763-23-1   |





## Glossary of Terms & Qualifier Definitions

**Client:** Langan

**WorkOrder:** 2507A49

**Project:** 770651908; Northtown Campus

Perfluorooctanoic Acid

PFOA 335-67-1

Perfluoropentane Sulfonic Acid

PFPeS 2706-91-4

Perfluoropentanoic Acid

PFPeA 2706-90-3

Perfluorotetradecanoic Acid

PFTeDA 376-06-7

Perfluorotridecanoic Acid

PFTTrDA 72629-94-8

Perfluoroundecanoic Acid

PFUnA 2058-94-8



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/L

### Perfluorinated Compounds

| Client ID       | Lab ID        | Matrix | Date Collected   |           | Instrument             | Batch ID |
|-----------------|---------------|--------|------------------|-----------|------------------------|----------|
| SB-01-GW        | 2507A49-001A  | Water  | 07/15/2025 13:35 |           | LC-MS4 07182025 1633 2 | 321705   |
| <u>Analytes</u> | <u>Result</u> |        | <u>RL</u>        | <u>DE</u> | <u>Date Analyzed</u>   |          |
| 9CIPF3ONS       | ND            |        | 1.8              | 1         | 07/19/2025 03:40       |          |
| 11CIPF3OUdS     | ND            |        | 1.8              | 1         | 07/19/2025 03:40       |          |
| 3:3 FTCA        | ND            |        | 1.8              | 1         | 07/19/2025 03:40       |          |
| 4:2 FTS         | ND            |        | 1.8              | 1         | 07/19/2025 03:40       |          |
| 5:3 FTCA        | ND            |        | 1.8              | 1         | 07/19/2025 03:40       |          |
| 6:2 FTS         | ND            |        | 1.8              | 1         | 07/19/2025 03:40       |          |
| 7:3 FTCA        | ND            |        | 1.8              | 1         | 07/19/2025 03:40       |          |
| 8:2 FTS         | ND            |        | 1.8              | 1         | 07/19/2025 03:40       |          |
| 10:2 FTS        | ND            |        | 1.7              | 1         | 07/19/2025 03:40       |          |
| ADONA           | ND            |        | 1.8              | 1         | 07/19/2025 03:40       |          |
| EtFOSA          | ND            |        | 1.8              | 1         | 07/19/2025 03:40       |          |
| EtFOSE          | ND            |        | 1.8              | 1         | 07/19/2025 03:40       |          |
| HFPO-DA         | ND            |        | 1.8              | 1         | 07/19/2025 03:40       |          |
| MeFOSA          | ND            |        | 1.8              | 1         | 07/19/2025 03:40       |          |
| MeFOSE          | ND            |        | 1.8              | 1         | 07/19/2025 03:40       |          |
| NEtFOSAA        | ND            |        | 1.8              | 1         | 07/19/2025 03:40       |          |
| NFDHA           | ND            |        | 1.8              | 1         | 07/19/2025 03:40       |          |
| NMeFOSAA        | ND            |        | 1.8              | 1         | 07/19/2025 03:40       |          |
| PFBA            | ND            |        | 1.8              | 1         | 07/19/2025 03:40       |          |
| PFBS            | 2.8           |        | 1.8              | 1         | 07/19/2025 03:40       |          |
| PFDA            | ND            |        | 1.8              | 1         | 07/19/2025 03:40       |          |
| PFDoA           | ND            |        | 1.8              | 1         | 07/19/2025 03:40       |          |
| PFDoS           | ND            |        | 1.8              | 1         | 07/19/2025 03:40       |          |
| PFDS            | ND            |        | 1.8              | 1         | 07/19/2025 03:40       |          |
| PFEESA          | ND            |        | 1.8              | 1         | 07/19/2025 03:40       |          |
| PFHpA           | ND            |        | 1.8              | 1         | 07/19/2025 03:40       |          |
| PFHpS           | ND            |        | 1.8              | 1         | 07/19/2025 03:40       |          |
| PFHxA           | ND            |        | 1.8              | 1         | 07/19/2025 03:40       |          |
| PFHxDA          | ND            |        | 1.8              | 1         | 07/19/2025 03:40       |          |
| PFHxS           | ND            |        | 1.8              | 1         | 07/19/2025 03:40       |          |
| PFMBA           | ND            |        | 1.8              | 1         | 07/19/2025 03:40       |          |
| PFMPA           | ND            |        | 1.8              | 1         | 07/19/2025 03:40       |          |
| PFNA            | ND            |        | 1.8              | 1         | 07/19/2025 03:40       |          |
| PFNS            | ND            |        | 1.8              | 1         | 07/19/2025 03:40       |          |
| PFOA            | ND            |        | 1.8              | 1         | 07/19/2025 03:40       |          |
| PFODA           | ND            |        | 1.8              | 1         | 07/19/2025 03:40       |          |

(Cont.)



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/L

### Perfluorinated Compounds

| Client ID       | Lab ID        | Matrix | Date Collected   |           | Instrument             | Batch ID |
|-----------------|---------------|--------|------------------|-----------|------------------------|----------|
| SB-01-GW        | 2507A49-001A  | Water  | 07/15/2025 13:35 |           | LC-MS4 07182025 1633 2 | 321705   |
| <u>Analytes</u> | <u>Result</u> |        | <u>RL</u>        | <u>DE</u> | <u>Date Analyzed</u>   |          |
| PFOS            | ND            |        | 1.8              | 1         | 07/19/2025 03:40       |          |
| PFOSA           | ND            |        | 1.8              | 1         | 07/19/2025 03:40       |          |
| PFPeA           | ND            |        | 1.8              | 1         | 07/19/2025 03:40       |          |
| PFPeS           | ND            |        | 1.8              | 1         | 07/19/2025 03:40       |          |
| PFTeDA          | ND            |        | 1.8              | 1         | 07/19/2025 03:40       |          |
| PFTrDA          | ND            |        | 1.8              | 1         | 07/19/2025 03:40       |          |
| PFUnA           | ND            |        | 1.8              | 1         | 07/19/2025 03:40       |          |



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/L

### Perfluorinated Compounds

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument             | Batch ID |
|-----------|--------------|--------|------------------|------------------------|----------|
| SB-01-GW  | 2507A49-001A | Water  | 07/15/2025 13:35 | LC-MS4 07182025 1633 2 | 321705   |

| Analytes          | Result         | RL            | DE        | Date Analyzed    |
|-------------------|----------------|---------------|-----------|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | <u>Limits</u> | <u>DE</u> |                  |
| 13C2-4:2 FTS      | 142            | 40-200        | 1         | 07/19/2025 03:40 |
| 13C2-6:2 FTS      | 111            | 40-200        | 1         | 07/19/2025 03:40 |
| 13C2-8:2 FTS      | 97             | 40-300        | 1         | 07/19/2025 03:40 |
| 13C2-PFDoA        | 91             | 20-130        | 1         | 07/19/2025 03:40 |
| 13C2-PFTeDA       | 74             | 20-130        | 1         | 07/19/2025 03:40 |
| 13C3-HFPO-DA      | 90             | 40-130        | 1         | 07/19/2025 03:40 |
| 13C3-PFBS         | 99             | 40-135        | 1         | 07/19/2025 03:40 |
| 13C3-PFHxS        | 99             | 40-130        | 1         | 07/19/2025 03:40 |
| 13C4-PFBA         | 94             | 20-130        | 1         | 07/19/2025 03:40 |
| 13C4-PFHpA        | 95             | 40-130        | 1         | 07/19/2025 03:40 |
| 13C5-PFHxA        | 95             | 40-130        | 1         | 07/19/2025 03:40 |
| 13C5-PFPeA        | 103            | 40-130        | 1         | 07/19/2025 03:40 |
| 13C6-PFDA         | 101            | 40-130        | 1         | 07/19/2025 03:40 |
| 13C7-PFUdA        | 91             | 30-130        | 1         | 07/19/2025 03:40 |
| 13C8-PFOA         | 97             | 40-130        | 1         | 07/19/2025 03:40 |
| 13C8-PFOS         | 98             | 40-130        | 1         | 07/19/2025 03:40 |
| 13C8-PFOSA        | 102            | 40-130        | 1         | 07/19/2025 03:40 |
| 13C9-PFNA         | 98             | 40-130        | 1         | 07/19/2025 03:40 |
| d3-MeFOSAA        | 96             | 40-170        | 1         | 07/19/2025 03:40 |
| d5-EtFOSAA        | 89             | 25-135        | 1         | 07/19/2025 03:40 |
| 13C2-PFHxDA       | 64             | 20-150        | 1         | 07/19/2025 03:40 |
| d3-MeFOSA         | 78             | 20-130        | 1         | 07/19/2025 03:40 |
| d5-EtFOSA         | 78             | 20-130        | 1         | 07/19/2025 03:40 |
| d7N-MeFOSE1       | 83             | 20-130        | 1         | 07/19/2025 03:40 |
| d9N-EtFOSE1       | 83             | 20-130        | 1         | 07/19/2025 03:40 |
| 13C2-10:2 FTS     | 76             | 20-150        | 1         | 07/19/2025 03:40 |

Analyst(s): PJA

Analytical Comments: b1

(Cont.)



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/L

### Perfluorinated Compounds

| Client ID       | Lab ID        | Matrix | Date Collected   | Instrument             | Batch ID             |
|-----------------|---------------|--------|------------------|------------------------|----------------------|
| SB-02-GW        | 2507A49-002A  | Water  | 07/15/2025 11:50 | LC-MS4 07182025 1633 2 | 321705               |
| <u>Analytes</u> | <u>Result</u> |        | <u>RL</u>        | <u>DE</u>              | <u>Date Analyzed</u> |
| 9CIPF3ONS       | ND            |        | 1.8              | 1                      | 07/19/2025 03:52     |
| 11CIPF3OUdS     | ND            |        | 1.8              | 1                      | 07/19/2025 03:52     |
| 3:3 FTCA        | ND            |        | 1.8              | 1                      | 07/19/2025 03:52     |
| 4:2 FTS         | ND            |        | 1.8              | 1                      | 07/19/2025 03:52     |
| 5:3 FTCA        | ND            |        | 1.8              | 1                      | 07/19/2025 03:52     |
| 6:2 FTS         | ND            |        | 1.8              | 1                      | 07/19/2025 03:52     |
| 7:3 FTCA        | ND            |        | 1.8              | 1                      | 07/19/2025 03:52     |
| 8:2 FTS         | ND            |        | 1.8              | 1                      | 07/19/2025 03:52     |
| 10:2 FTS        | ND            |        | 1.7              | 1                      | 07/19/2025 03:52     |
| ADONA           | ND            |        | 1.8              | 1                      | 07/19/2025 03:52     |
| EtFOSA          | ND            |        | 1.8              | 1                      | 07/19/2025 03:52     |
| EtFOSE          | ND            |        | 1.8              | 1                      | 07/19/2025 03:52     |
| HFPO-DA         | ND            |        | 1.8              | 1                      | 07/19/2025 03:52     |
| MeFOSA          | ND            |        | 1.8              | 1                      | 07/19/2025 03:52     |
| MeFOSE          | ND            |        | 1.8              | 1                      | 07/19/2025 03:52     |
| NEtFOSAA        | ND            |        | 1.8              | 1                      | 07/19/2025 03:52     |
| NFDHA           | ND            |        | 1.8              | 1                      | 07/19/2025 03:52     |
| NMeFOSAA        | ND            |        | 1.8              | 1                      | 07/19/2025 03:52     |
| PFBA            | 2.0           |        | 1.8              | 1                      | 07/19/2025 03:52     |
| PFBS            | 2.1           |        | 1.8              | 1                      | 07/19/2025 03:52     |
| PFDA            | ND            |        | 1.8              | 1                      | 07/19/2025 03:52     |
| PFDaA           | ND            |        | 1.8              | 1                      | 07/19/2025 03:52     |
| PFDoS           | ND            |        | 1.8              | 1                      | 07/19/2025 03:52     |
| PFDS            | ND            |        | 1.8              | 1                      | 07/19/2025 03:52     |
| PFEESA          | ND            |        | 1.8              | 1                      | 07/19/2025 03:52     |
| PFHpA           | ND            |        | 1.8              | 1                      | 07/19/2025 03:52     |
| PFHpS           | ND            |        | 1.8              | 1                      | 07/19/2025 03:52     |
| PFHxA           | ND            |        | 1.8              | 1                      | 07/19/2025 03:52     |
| PFHxDA          | ND            |        | 1.8              | 1                      | 07/19/2025 03:52     |
| PFHxS           | ND            |        | 1.8              | 1                      | 07/19/2025 03:52     |
| PFMBA           | ND            |        | 1.8              | 1                      | 07/19/2025 03:52     |
| PFMPA           | ND            |        | 1.8              | 1                      | 07/19/2025 03:52     |
| PFNA            | ND            |        | 1.8              | 1                      | 07/19/2025 03:52     |
| PFNS            | ND            |        | 1.8              | 1                      | 07/19/2025 03:52     |
| PFOA            | ND            |        | 1.8              | 1                      | 07/19/2025 03:52     |
| PFODA           | ND            |        | 1.8              | 1                      | 07/19/2025 03:52     |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/L

### Perfluorinated Compounds

| Client ID       | Lab ID        | Matrix | Date Collected   |           | Instrument             | Batch ID |
|-----------------|---------------|--------|------------------|-----------|------------------------|----------|
| SB-02-GW        | 2507A49-002A  | Water  | 07/15/2025 11:50 |           | LC-MS4 07182025 1633 2 | 321705   |
| <u>Analytes</u> | <u>Result</u> |        | <u>RL</u>        | <u>DE</u> | <u>Date Analyzed</u>   |          |
| PFOS            | ND            |        | 1.8              | 1         | 07/19/2025 03:52       |          |
| PFOSA           | ND            |        | 1.8              | 1         | 07/19/2025 03:52       |          |
| PFPeA           | ND            |        | 1.8              | 1         | 07/19/2025 03:52       |          |
| PFPeS           | ND            |        | 1.8              | 1         | 07/19/2025 03:52       |          |
| PFTeDA          | ND            |        | 1.8              | 1         | 07/19/2025 03:52       |          |
| PFTrDA          | ND            |        | 1.8              | 1         | 07/19/2025 03:52       |          |
| PFUnA           | ND            |        | 1.8              | 1         | 07/19/2025 03:52       |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/L

### Perfluorinated Compounds

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument             | Batch ID |
|-----------|--------------|--------|------------------|------------------------|----------|
| SB-02-GW  | 2507A49-002A | Water  | 07/15/2025 11:50 | LC-MS4 07182025 1633 2 | 321705   |

| Analytes          | Result         | RL            | DE        | Date Analyzed    |
|-------------------|----------------|---------------|-----------|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | <u>Limits</u> | <u>DE</u> |                  |
| 13C2-4:2 FTS      | 142            | 40-200        | 1         | 07/19/2025 03:52 |
| 13C2-6:2 FTS      | 97             | 40-200        | 1         | 07/19/2025 03:52 |
| 13C2-8:2 FTS      | 100            | 40-300        | 1         | 07/19/2025 03:52 |
| 13C2-PFDoA        | 84             | 20-130        | 1         | 07/19/2025 03:52 |
| 13C2-PFTeDA       | 69             | 20-130        | 1         | 07/19/2025 03:52 |
| 13C3-HFPO-DA      | 100            | 40-130        | 1         | 07/19/2025 03:52 |
| 13C3-PFBS         | 110            | 40-135        | 1         | 07/19/2025 03:52 |
| 13C3-PFHxS        | 101            | 40-130        | 1         | 07/19/2025 03:52 |
| 13C4-PFBA         | 98             | 20-130        | 1         | 07/19/2025 03:52 |
| 13C4-PFHpA        | 103            | 40-130        | 1         | 07/19/2025 03:52 |
| 13C5-PFHxA        | 103            | 40-130        | 1         | 07/19/2025 03:52 |
| 13C5-PFPeA        | 115            | 40-130        | 1         | 07/19/2025 03:52 |
| 13C6-PFDA         | 100            | 40-130        | 1         | 07/19/2025 03:52 |
| 13C7-PFUdA        | 91             | 30-130        | 1         | 07/19/2025 03:52 |
| 13C8-PFOA         | 103            | 40-130        | 1         | 07/19/2025 03:52 |
| 13C8-PFOS         | 98             | 40-130        | 1         | 07/19/2025 03:52 |
| 13C8-PFOSA        | 108            | 40-130        | 1         | 07/19/2025 03:52 |
| 13C9-PFNA         | 105            | 40-130        | 1         | 07/19/2025 03:52 |
| d3-MeFOSAA        | 99             | 40-170        | 1         | 07/19/2025 03:52 |
| d5-EtFOSAA        | 88             | 25-135        | 1         | 07/19/2025 03:52 |
| 13C2-PFHxDA       | 62             | 20-150        | 1         | 07/19/2025 03:52 |
| d3-MeFOSA         | 76             | 20-130        | 1         | 07/19/2025 03:52 |
| d5-EtFOSA         | 75             | 20-130        | 1         | 07/19/2025 03:52 |
| d7N-MeFOSE1       | 83             | 20-130        | 1         | 07/19/2025 03:52 |
| d9N-EtFOSE1       | 84             | 20-130        | 1         | 07/19/2025 03:52 |
| 13C2-10:2 FTS     | 77             | 20-150        | 1         | 07/19/2025 03:52 |

Analyst(s): PJA

Analytical Comments: b1

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/L

### Perfluorinated Compounds

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument             | Batch ID |
|-----------|--------------|--------|------------------|------------------------|----------|
| SB-03-GW  | 2507A49-003A | Water  | 07/15/2025 15:54 | LC-MS4 07182025 1633 2 | 321705   |

| Analytes    | Result | RL  | DE | Date Analyzed    |
|-------------|--------|-----|----|------------------|
| 9CIPF3ONS   | ND     | 1.7 | 1  | 07/19/2025 04:04 |
| 11CIPF3OUDS | ND     | 1.7 | 1  | 07/19/2025 04:04 |
| 3:3 FTCA    | ND     | 1.7 | 1  | 07/19/2025 04:04 |
| 4:2 FTS     | ND     | 1.7 | 1  | 07/19/2025 04:04 |
| 5:3 FTCA    | ND     | 1.7 | 1  | 07/19/2025 04:04 |
| 6:2 FTS     | ND     | 1.7 | 1  | 07/19/2025 04:04 |
| 7:3 FTCA    | ND     | 1.7 | 1  | 07/19/2025 04:04 |
| 8:2 FTS     | ND     | 1.7 | 1  | 07/19/2025 04:04 |
| 10:2 FTS    | ND     | 1.6 | 1  | 07/19/2025 04:04 |
| ADONA       | ND     | 1.7 | 1  | 07/19/2025 04:04 |
| EtFOSA      | ND     | 1.7 | 1  | 07/19/2025 04:04 |
| EtFOSE      | ND     | 1.7 | 1  | 07/19/2025 04:04 |
| HFPO-DA     | ND     | 1.7 | 1  | 07/19/2025 04:04 |
| MeFOSA      | ND     | 1.7 | 1  | 07/19/2025 04:04 |
| MeFOSE      | ND     | 1.7 | 1  | 07/19/2025 04:04 |
| NEtFOSAA    | ND     | 1.7 | 1  | 07/19/2025 04:04 |
| NFDHA       | ND     | 1.7 | 1  | 07/19/2025 04:04 |
| NMeFOSAA    | ND     | 1.7 | 1  | 07/19/2025 04:04 |
| PFBA        | 10     | 1.7 | 1  | 07/19/2025 04:04 |
| PFBS        | 4.1    | 1.7 | 1  | 07/19/2025 04:04 |
| PFDA        | ND     | 1.7 | 1  | 07/19/2025 04:04 |
| PFDoA       | ND     | 1.7 | 1  | 07/19/2025 04:04 |
| PFDoS       | ND     | 1.7 | 1  | 07/19/2025 04:04 |
| PFDS        | ND     | 1.7 | 1  | 07/19/2025 04:04 |
| PFEESA      | ND     | 1.7 | 1  | 07/19/2025 04:04 |
| PFHpA       | ND     | 1.7 | 1  | 07/19/2025 04:04 |
| PFHpS       | ND     | 1.7 | 1  | 07/19/2025 04:04 |
| PFHxA       | ND     | 1.7 | 1  | 07/19/2025 04:04 |
| PFHxDA      | ND     | 1.7 | 1  | 07/19/2025 04:04 |
| PFHxS       | 8.4    | 1.7 | 1  | 07/19/2025 04:04 |
| PFMBA       | ND     | 1.7 | 1  | 07/19/2025 04:04 |
| PFMPA       | ND     | 1.7 | 1  | 07/19/2025 04:04 |
| PFNA        | ND     | 1.7 | 1  | 07/19/2025 04:04 |
| PFNS        | ND     | 1.7 | 1  | 07/19/2025 04:04 |
| PFOA        | ND     | 1.7 | 1  | 07/19/2025 04:04 |
| PFODA       | ND     | 1.7 | 1  | 07/19/2025 04:04 |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/L

### Perfluorinated Compounds

| Client ID       | Lab ID        | Matrix | Date Collected   |           | Instrument             | Batch ID |
|-----------------|---------------|--------|------------------|-----------|------------------------|----------|
| SB-03-GW        | 2507A49-003A  | Water  | 07/15/2025 15:54 |           | LC-MS4 07182025 1633 2 | 321705   |
| <u>Analytes</u> | <u>Result</u> |        | <u>RL</u>        | <u>DE</u> | <u>Date Analyzed</u>   |          |
| PFOS            | 51            |        | 1.7              | 1         | 07/19/2025 04:04       |          |
| PFOSA           | ND            |        | 1.7              | 1         | 07/19/2025 04:04       |          |
| PFPeA           | ND            |        | 1.7              | 1         | 07/19/2025 04:04       |          |
| PFPeS           | ND            |        | 1.7              | 1         | 07/19/2025 04:04       |          |
| PFTeDA          | ND            |        | 1.7              | 1         | 07/19/2025 04:04       |          |
| PFTeDA          | ND            |        | 1.7              | 1         | 07/19/2025 04:04       |          |
| PFTeDA          | ND            |        | 1.7              | 1         | 07/19/2025 04:04       |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/L

### Perfluorinated Compounds

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument             | Batch ID |
|-----------|--------------|--------|------------------|------------------------|----------|
| SB-03-GW  | 2507A49-003A | Water  | 07/15/2025 15:54 | LC-MS4 07182025 1633 2 | 321705   |

| Analytes          | Result         | RL            | DE        | Date Analyzed    |
|-------------------|----------------|---------------|-----------|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | <u>Limits</u> | <u>DE</u> |                  |
| 13C2-4:2 FTS      | 95             | 40-200        | 1         | 07/19/2025 04:04 |
| 13C2-6:2 FTS      | 90             | 40-200        | 1         | 07/19/2025 04:04 |
| 13C2-8:2 FTS      | 94             | 40-300        | 1         | 07/19/2025 04:04 |
| 13C2-PFDoA        | 86             | 20-130        | 1         | 07/19/2025 04:04 |
| 13C2-PFTeDA       | 70             | 20-130        | 1         | 07/19/2025 04:04 |
| 13C3-HFPO-DA      | 88             | 40-130        | 1         | 07/19/2025 04:04 |
| 13C3-PFBS         | 95             | 40-135        | 1         | 07/19/2025 04:04 |
| 13C3-PFHxS        | 101            | 40-130        | 1         | 07/19/2025 04:04 |
| 13C4-PFBA         | 87             | 20-130        | 1         | 07/19/2025 04:04 |
| 13C4-PFHpA        | 89             | 40-130        | 1         | 07/19/2025 04:04 |
| 13C5-PFHxA        | 95             | 40-130        | 1         | 07/19/2025 04:04 |
| 13C5-PFPeA        | 89             | 40-130        | 1         | 07/19/2025 04:04 |
| 13C6-PFDA         | 101            | 40-130        | 1         | 07/19/2025 04:04 |
| 13C7-PFUdA        | 86             | 30-130        | 1         | 07/19/2025 04:04 |
| 13C8-PFOA         | 96             | 40-130        | 1         | 07/19/2025 04:04 |
| 13C8-PFOS         | 93             | 40-130        | 1         | 07/19/2025 04:04 |
| 13C8-PFOSA        | 107            | 40-130        | 1         | 07/19/2025 04:04 |
| 13C9-PFNA         | 101            | 40-130        | 1         | 07/19/2025 04:04 |
| d3-MeFOSAA        | 91             | 40-170        | 1         | 07/19/2025 04:04 |
| d5-EtFOSAA        | 82             | 25-135        | 1         | 07/19/2025 04:04 |
| 13C2-PFHxDA       | 57             | 20-150        | 1         | 07/19/2025 04:04 |
| d3-MeFOSA         | 77             | 20-130        | 1         | 07/19/2025 04:04 |
| d5-EtFOSA         | 79             | 20-130        | 1         | 07/19/2025 04:04 |
| d7N-MeFOSE1       | 84             | 20-130        | 1         | 07/19/2025 04:04 |
| d9N-EtFOSE1       | 86             | 20-130        | 1         | 07/19/2025 04:04 |
| 13C2-10:2 FTS     | 79             | 20-150        | 1         | 07/19/2025 04:04 |

Analyst(s): PJA

Analytical Comments: b1

(Cont.)



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/L

### Perfluorinated Compounds

| Client ID       | Lab ID        | Matrix | Date Collected   |           | Instrument             | Batch ID |
|-----------------|---------------|--------|------------------|-----------|------------------------|----------|
| SB-04-GW        | 2507A49-004A  | Water  | 07/16/2025 11:11 |           | LC-MS4 07182025 1633 2 | 321705   |
| <u>Analytes</u> | <u>Result</u> |        | <u>RL</u>        | <u>DE</u> | <u>Date Analyzed</u>   |          |
| 9CIPF3ONS       | ND            |        | 1.7              | 1         | 07/19/2025 04:16       |          |
| 11CIPF3OUDS     | ND            |        | 1.7              | 1         | 07/19/2025 04:16       |          |
| 3:3 FTCA        | ND            |        | 1.7              | 1         | 07/19/2025 04:16       |          |
| 4:2 FTS         | ND            |        | 1.7              | 1         | 07/19/2025 04:16       |          |
| 5:3 FTCA        | ND            |        | 1.7              | 1         | 07/19/2025 04:16       |          |
| 6:2 FTS         | ND            |        | 1.7              | 1         | 07/19/2025 04:16       |          |
| 7:3 FTCA        | ND            |        | 1.7              | 1         | 07/19/2025 04:16       |          |
| 8:2 FTS         | ND            |        | 1.7              | 1         | 07/19/2025 04:16       |          |
| 10:2 FTS        | ND            |        | 1.6              | 1         | 07/19/2025 04:16       |          |
| ADONA           | ND            |        | 1.7              | 1         | 07/19/2025 04:16       |          |
| EtFOSA          | ND            |        | 1.7              | 1         | 07/19/2025 04:16       |          |
| EtFOSE          | ND            |        | 1.7              | 1         | 07/19/2025 04:16       |          |
| HFPO-DA         | ND            |        | 1.7              | 1         | 07/19/2025 04:16       |          |
| MeFOSA          | ND            |        | 1.7              | 1         | 07/19/2025 04:16       |          |
| MeFOSE          | ND            |        | 1.7              | 1         | 07/19/2025 04:16       |          |
| NEtFOSAA        | ND            |        | 1.7              | 1         | 07/19/2025 04:16       |          |
| NFDHA           | ND            |        | 1.7              | 1         | 07/19/2025 04:16       |          |
| NMeFOSAA        | ND            |        | 1.7              | 1         | 07/19/2025 04:16       |          |
| PFBA            | ND            |        | 1.7              | 1         | 07/19/2025 04:16       |          |
| PFBS            | 6.1           |        | 1.7              | 1         | 07/19/2025 04:16       |          |
| PFDA            | ND            |        | 1.7              | 1         | 07/19/2025 04:16       |          |
| PFDoA           | ND            |        | 1.7              | 1         | 07/19/2025 04:16       |          |
| PFDoS           | ND            |        | 1.7              | 1         | 07/19/2025 04:16       |          |
| PFDS            | ND            |        | 1.7              | 1         | 07/19/2025 04:16       |          |
| PFEESA          | ND            |        | 1.7              | 1         | 07/19/2025 04:16       |          |
| PFHpA           | ND            |        | 1.7              | 1         | 07/19/2025 04:16       |          |
| PFHpS           | ND            |        | 1.7              | 1         | 07/19/2025 04:16       |          |
| PFHxA           | ND            |        | 1.7              | 1         | 07/19/2025 04:16       |          |
| PFHxDA          | ND            |        | 1.7              | 1         | 07/19/2025 04:16       |          |
| PFHxS           | 8.5           |        | 1.7              | 1         | 07/19/2025 04:16       |          |
| PFMBA           | ND            |        | 1.7              | 1         | 07/19/2025 04:16       |          |
| PFMPA           | ND            |        | 1.7              | 1         | 07/19/2025 04:16       |          |
| PFNA            | ND            |        | 1.7              | 1         | 07/19/2025 04:16       |          |
| PFNS            | ND            |        | 1.7              | 1         | 07/19/2025 04:16       |          |
| PFOA            | ND            |        | 1.7              | 1         | 07/19/2025 04:16       |          |
| PFODA           | ND            |        | 1.7              | 1         | 07/19/2025 04:16       |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/L

### Perfluorinated Compounds

| Client ID       | Lab ID        | Matrix | Date Collected   |           | Instrument             | Batch ID |
|-----------------|---------------|--------|------------------|-----------|------------------------|----------|
| SB-04-GW        | 2507A49-004A  | Water  | 07/16/2025 11:11 |           | LC-MS4 07182025 1633 2 | 321705   |
| <u>Analytes</u> | <u>Result</u> |        | <u>RL</u>        | <u>DE</u> | <u>Date Analyzed</u>   |          |
| PFOS            | ND            |        | 1.7              | 1         | 07/19/2025 04:16       |          |
| PFOSA           | ND            |        | 1.7              | 1         | 07/19/2025 04:16       |          |
| PFPeA           | ND            |        | 1.7              | 1         | 07/19/2025 04:16       |          |
| PFPeS           | 3.0           |        | 1.7              | 1         | 07/19/2025 04:16       |          |
| PFTeDA          | ND            |        | 1.7              | 1         | 07/19/2025 04:16       |          |
| PFTrDA          | ND            |        | 1.7              | 1         | 07/19/2025 04:16       |          |
| PFUnA           | ND            |        | 1.7              | 1         | 07/19/2025 04:16       |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/L

### Perfluorinated Compounds

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument             | Batch ID |
|-----------|--------------|--------|------------------|------------------------|----------|
| SB-04-GW  | 2507A49-004A | Water  | 07/16/2025 11:11 | LC-MS4 07182025 1633 2 | 321705   |

| Analytes          | Result         | RL            | DE        | Date Analyzed    |
|-------------------|----------------|---------------|-----------|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | <u>Limits</u> | <u>DE</u> |                  |
| 13C2-4:2 FTS      | 59             | 40-200        | 1         | 07/19/2025 04:16 |
| 13C2-6:2 FTS      | 51             | 40-200        | 1         | 07/19/2025 04:16 |
| 13C2-8:2 FTS      | 49             | 40-300        | 1         | 07/19/2025 04:16 |
| 13C2-PFDoA        | 34             | 20-130        | 1         | 07/19/2025 04:16 |
| 13C2-PFTeDA       | 20             | 20-130        | 1         | 07/19/2025 04:16 |
| 13C3-HFPO-DA      | 57             | 40-130        | 1         | 07/19/2025 04:16 |
| 13C3-PFBS         | 48             | 40-135        | 1         | 07/19/2025 04:16 |
| 13C3-PFHxS        | 50             | 40-130        | 1         | 07/19/2025 04:16 |
| 13C4-PFBA         | 58             | 20-130        | 1         | 07/19/2025 04:16 |
| 13C4-PFHpA        | 56             | 40-130        | 1         | 07/19/2025 04:16 |
| 13C5-PFHxA        | 58             | 40-130        | 1         | 07/19/2025 04:16 |
| 13C5-PFPeA        | 59             | 40-130        | 1         | 07/19/2025 04:16 |
| 13C6-PFDA         | 51             | 40-130        | 1         | 07/19/2025 04:16 |
| 13C7-PFUdA        | 41             | 30-130        | 1         | 07/19/2025 04:16 |
| 13C8-PFOA         | 55             | 40-130        | 1         | 07/19/2025 04:16 |
| 13C8-PFOS         | 45             | 40-130        | 1         | 07/19/2025 04:16 |
| 13C8-PFOSA        | 58             | 40-130        | 1         | 07/19/2025 04:16 |
| 13C9-PFNA         | 56             | 40-130        | 1         | 07/19/2025 04:16 |
| d3-MeFOSAA        | 42             | 40-170        | 1         | 07/19/2025 04:16 |
| d5-EtFOSAA        | 37             | 25-135        | 1         | 07/19/2025 04:16 |
| 13C2-PFHxDA       | 21             | 20-150        | 1         | 07/19/2025 04:16 |
| d3-MeFOSA         | 36             | 20-130        | 1         | 07/19/2025 04:16 |
| d5-EtFOSA         | 33             | 20-130        | 1         | 07/19/2025 04:16 |
| d7N-MeFOSE1       | 38             | 20-130        | 1         | 07/19/2025 04:16 |
| d9N-EtFOSE1       | 36             | 20-130        | 1         | 07/19/2025 04:16 |
| 13C2-10:2 FTS     | 30             | 20-150        | 1         | 07/19/2025 04:16 |

Analyst(s): PJA

Analytical Comments: b1

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/L

### Perfluorinated Compounds

| Client ID       | Lab ID        | Matrix | Date Collected   |           | Instrument             | Batch ID |
|-----------------|---------------|--------|------------------|-----------|------------------------|----------|
| SB-05-GW        | 2507A49-005A  | Water  | 07/16/2025 09:36 |           | LC-MS4 07182025 1633 2 | 321705   |
| <u>Analytes</u> | <u>Result</u> |        | <u>RL</u>        | <u>DE</u> | <u>Date Analyzed</u>   |          |
| 9CIPF3ONS       | ND            |        | 1.7              | 1         | 07/19/2025 04:28       |          |
| 11CIPF3OUDS     | ND            |        | 1.7              | 1         | 07/19/2025 04:28       |          |
| 3:3 FTCA        | ND            |        | 1.7              | 1         | 07/19/2025 04:28       |          |
| 4:2 FTS         | ND            |        | 1.7              | 1         | 07/19/2025 04:28       |          |
| 5:3 FTCA        | ND            |        | 1.7              | 1         | 07/19/2025 04:28       |          |
| 6:2 FTS         | ND            |        | 1.7              | 1         | 07/19/2025 04:28       |          |
| 7:3 FTCA        | ND            |        | 1.7              | 1         | 07/19/2025 04:28       |          |
| 8:2 FTS         | ND            |        | 1.7              | 1         | 07/19/2025 04:28       |          |
| 10:2 FTS        | ND            |        | 1.7              | 1         | 07/19/2025 04:28       |          |
| ADONA           | ND            |        | 1.7              | 1         | 07/19/2025 04:28       |          |
| EtFOSA          | ND            |        | 1.7              | 1         | 07/19/2025 04:28       |          |
| EtFOSE          | ND            |        | 1.7              | 1         | 07/19/2025 04:28       |          |
| HFPO-DA         | ND            |        | 1.7              | 1         | 07/19/2025 04:28       |          |
| MeFOSA          | ND            |        | 1.7              | 1         | 07/19/2025 04:28       |          |
| MeFOSE          | ND            |        | 1.7              | 1         | 07/19/2025 04:28       |          |
| NEtFOSAA        | ND            |        | 1.7              | 1         | 07/19/2025 04:28       |          |
| NFDHA           | ND            |        | 1.7              | 1         | 07/19/2025 04:28       |          |
| NMeFOSAA        | ND            |        | 1.7              | 1         | 07/19/2025 04:28       |          |
| PFBA            | 4.6           |        | 1.7              | 1         | 07/19/2025 04:28       |          |
| PFBS            | 2.2           |        | 1.7              | 1         | 07/19/2025 04:28       |          |
| PFDA            | ND            |        | 1.7              | 1         | 07/19/2025 04:28       |          |
| PFDoA           | ND            |        | 1.7              | 1         | 07/19/2025 04:28       |          |
| PFDoS           | ND            |        | 1.7              | 1         | 07/19/2025 04:28       |          |
| PFDS            | ND            |        | 1.7              | 1         | 07/19/2025 04:28       |          |
| PFEESA          | ND            |        | 1.7              | 1         | 07/19/2025 04:28       |          |
| PFHpA           | ND            |        | 1.7              | 1         | 07/19/2025 04:28       |          |
| PFHpS           | ND            |        | 1.7              | 1         | 07/19/2025 04:28       |          |
| PFHxA           | ND            |        | 1.7              | 1         | 07/19/2025 04:28       |          |
| PFHxDA          | ND            |        | 1.7              | 1         | 07/19/2025 04:28       |          |
| PFHxS           | 4.0           |        | 1.7              | 1         | 07/19/2025 04:28       |          |
| PFMBA           | ND            |        | 1.7              | 1         | 07/19/2025 04:28       |          |
| PFMPA           | ND            |        | 1.7              | 1         | 07/19/2025 04:28       |          |
| PFNA            | ND            |        | 1.7              | 1         | 07/19/2025 04:28       |          |
| PFNS            | ND            |        | 1.7              | 1         | 07/19/2025 04:28       |          |
| PFOA            | ND            |        | 1.7              | 1         | 07/19/2025 04:28       |          |
| PFODA           | ND            |        | 1.7              | 1         | 07/19/2025 04:28       |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/L

### Perfluorinated Compounds

| Client ID       | Lab ID        | Matrix | Date Collected   | Instrument             | Batch ID             |
|-----------------|---------------|--------|------------------|------------------------|----------------------|
| SB-05-GW        | 2507A49-005A  | Water  | 07/16/2025 09:36 | LC-MS4 07182025 1633 2 | 321705               |
| <u>Analytes</u> | <u>Result</u> |        | <u>RL</u>        | <u>DE</u>              | <u>Date Analyzed</u> |
| PFOS            | 16            |        | 1.7              | 1                      | 07/19/2025 04:28     |
| PFOSA           | ND            |        | 1.7              | 1                      | 07/19/2025 04:28     |
| PFPeA           | ND            |        | 1.7              | 1                      | 07/19/2025 04:28     |
| PFPeS           | ND            |        | 1.7              | 1                      | 07/19/2025 04:28     |
| PFTeDA          | ND            |        | 1.7              | 1                      | 07/19/2025 04:28     |
| PFTrDA          | ND            |        | 1.7              | 1                      | 07/19/2025 04:28     |
| PFUnA           | ND            |        | 1.7              | 1                      | 07/19/2025 04:28     |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/L

### Perfluorinated Compounds

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument             | Batch ID |
|-----------|--------------|--------|------------------|------------------------|----------|
| SB-05-GW  | 2507A49-005A | Water  | 07/16/2025 09:36 | LC-MS4 07182025 1633 2 | 321705   |

| Analytes      | Result  | RL     | DE | Date Analyzed    |
|---------------|---------|--------|----|------------------|
| Surrogates    | REC (%) | Limits | DE |                  |
| 13C2-4:2 FTS  | 110     | 40-200 | 1  | 07/19/2025 04:28 |
| 13C2-6:2 FTS  | 119     | 40-200 | 1  | 07/19/2025 04:28 |
| 13C2-8:2 FTS  | 121     | 40-300 | 1  | 07/19/2025 04:28 |
| 13C2-PFDoA    | 104     | 20-130 | 1  | 07/19/2025 04:28 |
| 13C2-PFTeDA   | 83      | 20-130 | 1  | 07/19/2025 04:28 |
| 13C3-HFPO-DA  | 119     | 40-130 | 1  | 07/19/2025 04:28 |
| 13C3-PFBS     | 123     | 40-135 | 1  | 07/19/2025 04:28 |
| 13C3-PFHxS    | 120     | 40-130 | 1  | 07/19/2025 04:28 |
| 13C4-PFBA     | 107     | 20-130 | 1  | 07/19/2025 04:28 |
| 13C4-PFHpA    | 113     | 40-130 | 1  | 07/19/2025 04:28 |
| 13C5-PFHxA    | 109     | 40-130 | 1  | 07/19/2025 04:28 |
| 13C5-PFPeA    | 116     | 40-130 | 1  | 07/19/2025 04:28 |
| 13C6-PFDA     | 117     | 40-130 | 1  | 07/19/2025 04:28 |
| 13C7-PFUdA    | 103     | 30-130 | 1  | 07/19/2025 04:28 |
| 13C8-PFOA     | 116     | 40-130 | 1  | 07/19/2025 04:28 |
| 13C8-PFOS     | 115     | 40-130 | 1  | 07/19/2025 04:28 |
| 13C8-PFOSA    | 129     | 40-130 | 1  | 07/19/2025 04:28 |
| 13C9-PFNA     | 117     | 40-130 | 1  | 07/19/2025 04:28 |
| d3-MeFOSAA    | 124     | 40-170 | 1  | 07/19/2025 04:28 |
| d5-EtFOSAA    | 110     | 25-135 | 1  | 07/19/2025 04:28 |
| 13C2-PFHxDA   | 80      | 20-150 | 1  | 07/19/2025 04:28 |
| d3-MeFOSA     | 95      | 20-130 | 1  | 07/19/2025 04:28 |
| d5-EtFOSA     | 93      | 20-130 | 1  | 07/19/2025 04:28 |
| d7N-MeFOSE1   | 105     | 20-130 | 1  | 07/19/2025 04:28 |
| d9N-EtFOSE1   | 101     | 20-130 | 1  | 07/19/2025 04:28 |
| 13C2-10:2 FTS | 94      | 20-150 | 1  | 07/19/2025 04:28 |

Analyst(s): PJA

Analytical Comments: b1



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** µg/L

### Volatile Organics

| Client ID                     | Lab ID       | Matrix | Date Collected   |                  | Instrument      | Batch ID |
|-------------------------------|--------------|--------|------------------|------------------|-----------------|----------|
| SB-01-GW                      | 2507A49-001B | Water  | 07/15/2025 13:35 |                  | GC16 07182508.D | 321785   |
| Analytes                      | Result       | RL     | DE               | Date Analyzed    |                 |          |
| Acetone                       | ND           | 40     | 1                | 07/18/2025 11:59 |                 |          |
| tert-Amyl methyl ether (TAME) | ND           | 0.50   | 1                | 07/18/2025 11:59 |                 |          |
| Benzene                       | ND           | 0.20   | 1                | 07/18/2025 11:59 |                 |          |
| Bromobenzene                  | ND           | 0.50   | 1                | 07/18/2025 11:59 |                 |          |
| Bromochloromethane            | ND           | 0.50   | 1                | 07/18/2025 11:59 |                 |          |
| Bromodichloromethane          | ND           | 0.050  | 1                | 07/18/2025 11:59 |                 |          |
| Bromoform                     | ND           | 0.50   | 1                | 07/18/2025 11:59 |                 |          |
| Bromomethane                  | ND           | 0.50   | 1                | 07/18/2025 11:59 |                 |          |
| 2-Butanone (MEK)              | ND           | 5.0    | 1                | 07/18/2025 11:59 |                 |          |
| t-Butyl alcohol (TBA)         | ND           | 5.0    | 1                | 07/18/2025 11:59 |                 |          |
| n-Butyl benzene               | ND           | 0.50   | 1                | 07/18/2025 11:59 |                 |          |
| sec-Butyl benzene             | ND           | 0.50   | 1                | 07/18/2025 11:59 |                 |          |
| tert-Butyl benzene            | ND           | 0.50   | 1                | 07/18/2025 11:59 |                 |          |
| Carbon Disulfide              | ND           | 0.50   | 1                | 07/18/2025 11:59 |                 |          |
| Carbon Tetrachloride          | ND           | 0.050  | 1                | 07/18/2025 11:59 |                 |          |
| Chlorobenzene                 | ND           | 0.50   | 1                | 07/18/2025 11:59 |                 |          |
| Chloroethane                  | ND           | 0.50   | 1                | 07/18/2025 11:59 |                 |          |
| Chloroform                    | ND           | 0.10   | 1                | 07/18/2025 11:59 |                 |          |
| Chloromethane                 | ND           | 0.50   | 1                | 07/18/2025 11:59 |                 |          |
| 2-Chlorotoluene               | ND           | 0.50   | 1                | 07/18/2025 11:59 |                 |          |
| 4-Chlorotoluene               | ND           | 0.50   | 1                | 07/18/2025 11:59 |                 |          |
| Dibromochloromethane          | ND           | 0.15   | 1                | 07/18/2025 11:59 |                 |          |
| 1,2-Dibromo-3-chloropropane   | ND           | 0.020  | 1                | 07/18/2025 11:59 |                 |          |
| 1,2-Dibromoethane (EDB)       | ND           | 0.040  | 1                | 07/18/2025 11:59 |                 |          |
| Dibromomethane                | ND           | 0.50   | 1                | 07/18/2025 11:59 |                 |          |
| 1,2-Dichlorobenzene           | ND           | 0.50   | 1                | 07/18/2025 11:59 |                 |          |
| 1,3-Dichlorobenzene           | ND           | 0.50   | 1                | 07/18/2025 11:59 |                 |          |
| 1,4-Dichlorobenzene           | ND           | 0.50   | 1                | 07/18/2025 11:59 |                 |          |
| Dichlorodifluoromethane       | ND           | 0.50   | 1                | 07/18/2025 11:59 |                 |          |
| 1,1-Dichloroethane            | ND           | 0.50   | 1                | 07/18/2025 11:59 |                 |          |
| 1,2-Dichloroethane (1,2-DCA)  | ND           | 0.020  | 1                | 07/18/2025 11:59 |                 |          |
| 1,1-Dichloroethene            | ND           | 0.010  | 1                | 07/18/2025 11:59 |                 |          |
| cis-1,2-Dichloroethene        | ND           | 0.50   | 1                | 07/18/2025 11:59 |                 |          |
| trans-1,2-Dichloroethene      | ND           | 0.50   | 1                | 07/18/2025 11:59 |                 |          |
| 1,2-Dichloropropane           | ND           | 0.10   | 1                | 07/18/2025 11:59 |                 |          |
| 1,3-Dichloropropane           | ND           | 0.50   | 1                | 07/18/2025 11:59 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** µg/L

### Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-01-GW  | 2507A49-001B | Water  | 07/15/2025 13:35 | GC16 07182508.D | 321785   |

| Analytes                      | Result | RL     | DE | Date Analyzed    |
|-------------------------------|--------|--------|----|------------------|
| 2,2-Dichloropropane           | ND     | 0.50   | 1  | 07/18/2025 11:59 |
| 1,1-Dichloropropene           | ND     | 0.50   | 1  | 07/18/2025 11:59 |
| cis-1,3-Dichloropropene       | ND     | 0.50   | 1  | 07/18/2025 11:59 |
| trans-1,3-Dichloropropene     | ND     | 0.50   | 1  | 07/18/2025 11:59 |
| Diisopropyl ether (DIPE)      | ND     | 0.50   | 1  | 07/18/2025 11:59 |
| Ethylbenzene                  | ND     | 0.50   | 1  | 07/18/2025 11:59 |
| Ethyl tert-butyl ether (ETBE) | ND     | 0.50   | 1  | 07/18/2025 11:59 |
| Freon 113                     | ND     | 0.50   | 1  | 07/18/2025 11:59 |
| Hexachlorobutadiene           | ND     | 0.50   | 1  | 07/18/2025 11:59 |
| Hexachloroethane              | ND     | 0.20   | 1  | 07/18/2025 11:59 |
| 2-Hexanone                    | ND     | 0.50   | 1  | 07/18/2025 11:59 |
| Isopropylbenzene              | ND     | 0.50   | 1  | 07/18/2025 11:59 |
| 4-Isopropyl toluene           | ND     | 0.50   | 1  | 07/18/2025 11:59 |
| Methyl-t-butyl ether (MTBE)   | ND     | 0.50   | 1  | 07/18/2025 11:59 |
| Methylene chloride            | ND     | 2.0    | 1  | 07/18/2025 11:59 |
| 4-Methyl-2-pentanone (MIBK)   | ND     | 0.50   | 1  | 07/18/2025 11:59 |
| Naphthalene                   | ND     | 0.30   | 1  | 07/18/2025 11:59 |
| n-Propyl benzene              | ND     | 0.50   | 1  | 07/18/2025 11:59 |
| Styrene                       | ND     | 2.0    | 1  | 07/18/2025 11:59 |
| 1,1,1,2-Tetrachloroethane     | ND     | 0.50   | 1  | 07/18/2025 11:59 |
| 1,1,2,2-Tetrachloroethane     | ND     | 0.020  | 1  | 07/18/2025 11:59 |
| Tetrachloroethene             | ND     | 0.20   | 1  | 07/18/2025 11:59 |
| Toluene                       | ND     | 0.50   | 1  | 07/18/2025 11:59 |
| 1,2,3-Trichlorobenzene        | ND     | 0.50   | 1  | 07/18/2025 11:59 |
| 1,2,4-Trichlorobenzene        | ND     | 0.50   | 1  | 07/18/2025 11:59 |
| 1,1,1-Trichloroethane         | ND     | 0.50   | 1  | 07/18/2025 11:59 |
| 1,1,2-Trichloroethane         | ND     | 0.10   | 1  | 07/18/2025 11:59 |
| Trichloroethene               | ND     | 0.10   | 1  | 07/18/2025 11:59 |
| Trichlorofluoromethane        | ND     | 0.50   | 1  | 07/18/2025 11:59 |
| 1,2,3-Trichloropropane        | ND     | 0.0050 | 1  | 07/18/2025 11:59 |
| 1,2,4-Trimethylbenzene        | ND     | 0.50   | 1  | 07/18/2025 11:59 |
| 1,3,5-Trimethylbenzene        | ND     | 0.50   | 1  | 07/18/2025 11:59 |
| Vinyl Chloride                | ND     | 0.0050 | 1  | 07/18/2025 11:59 |
| m,p-Xylene                    | ND     | 1.0    | 1  | 07/18/2025 11:59 |
| o-Xylene                      | ND     | 0.50   | 1  | 07/18/2025 11:59 |
| Xylenes, Total                | ND     | 1.0    | 1  | 07/18/2025 11:59 |

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## Analytical Report

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**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** µg/L

### Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-01-GW  | 2507A49-001B | Water  | 07/15/2025 13:35 | GC16 07182508.D | 321785   |

| Analytes             | Result         | RL            | DE        | Date Analyzed    |
|----------------------|----------------|---------------|-----------|------------------|
| <u>Surrogates</u>    | <u>REC (%)</u> | <u>Limits</u> | <u>DE</u> |                  |
| Dibromofluoromethane | 117            | 70-130        | 1         | 07/18/2025 11:59 |
| Toluene-d8           | 79             | 70-130        | 1         | 07/18/2025 11:59 |
| 4-BFB                | 81             | 70-130        | 1         | 07/18/2025 11:59 |

Analyst(s): CLO

Analytical Comments: b1



## Analytical Report

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**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** µg/L

### Volatile Organics

| Client ID                     | Lab ID        | Matrix | Date Collected      | Instrument      | Batch ID             |
|-------------------------------|---------------|--------|---------------------|-----------------|----------------------|
| SB-02-GW                      | 2507A49-002B  | Water  | 07/15/2025 11:50    | GC16 07182509.D | 321785               |
| <u>Analytes</u>               | <u>Result</u> |        | <u>RL</u> <u>DE</u> |                 | <u>Date Analyzed</u> |
| Acetone                       | ND            |        | 40 1                |                 | 07/18/2025 12:40     |
| tert-Amyl methyl ether (TAME) | ND            |        | 0.50 1              |                 | 07/18/2025 12:40     |
| Benzene                       | ND            |        | 0.20 1              |                 | 07/18/2025 12:40     |
| Bromobenzene                  | ND            |        | 0.50 1              |                 | 07/18/2025 12:40     |
| Bromochloromethane            | ND            |        | 0.50 1              |                 | 07/18/2025 12:40     |
| Bromodichloromethane          | ND            |        | 0.050 1             |                 | 07/18/2025 12:40     |
| Bromoform                     | ND            |        | 0.50 1              |                 | 07/18/2025 12:40     |
| Bromomethane                  | ND            |        | 0.50 1              |                 | 07/18/2025 12:40     |
| 2-Butanone (MEK)              | ND            |        | 5.0 1               |                 | 07/18/2025 12:40     |
| t-Butyl alcohol (TBA)         | ND            |        | 5.0 1               |                 | 07/18/2025 12:40     |
| n-Butyl benzene               | ND            |        | 0.50 1              |                 | 07/18/2025 12:40     |
| sec-Butyl benzene             | ND            |        | 0.50 1              |                 | 07/18/2025 12:40     |
| tert-Butyl benzene            | ND            |        | 0.50 1              |                 | 07/18/2025 12:40     |
| Carbon Disulfide              | ND            |        | 0.50 1              |                 | 07/18/2025 12:40     |
| Carbon Tetrachloride          | ND            |        | 0.050 1             |                 | 07/18/2025 12:40     |
| Chlorobenzene                 | ND            |        | 0.50 1              |                 | 07/18/2025 12:40     |
| Chloroethane                  | ND            |        | 0.50 1              |                 | 07/18/2025 12:40     |
| Chloroform                    | ND            |        | 0.10 1              |                 | 07/18/2025 12:40     |
| Chloromethane                 | ND            |        | 0.50 1              |                 | 07/18/2025 12:40     |
| 2-Chlorotoluene               | ND            |        | 0.50 1              |                 | 07/18/2025 12:40     |
| 4-Chlorotoluene               | ND            |        | 0.50 1              |                 | 07/18/2025 12:40     |
| Dibromochloromethane          | ND            |        | 0.15 1              |                 | 07/18/2025 12:40     |
| 1,2-Dibromo-3-chloropropane   | ND            |        | 0.020 1             |                 | 07/18/2025 12:40     |
| 1,2-Dibromoethane (EDB)       | ND            |        | 0.040 1             |                 | 07/18/2025 12:40     |
| Dibromomethane                | ND            |        | 0.50 1              |                 | 07/18/2025 12:40     |
| 1,2-Dichlorobenzene           | ND            |        | 0.50 1              |                 | 07/18/2025 12:40     |
| 1,3-Dichlorobenzene           | ND            |        | 0.50 1              |                 | 07/18/2025 12:40     |
| 1,4-Dichlorobenzene           | ND            |        | 0.50 1              |                 | 07/18/2025 12:40     |
| Dichlorodifluoromethane       | ND            |        | 0.50 1              |                 | 07/18/2025 12:40     |
| 1,1-Dichloroethane            | ND            |        | 0.50 1              |                 | 07/18/2025 12:40     |
| 1,2-Dichloroethane (1,2-DCA)  | ND            |        | 0.020 1             |                 | 07/18/2025 12:40     |
| 1,1-Dichloroethene            | ND            |        | 0.010 1             |                 | 07/18/2025 12:40     |
| cis-1,2-Dichloroethene        | ND            |        | 0.50 1              |                 | 07/18/2025 12:40     |
| trans-1,2-Dichloroethene      | ND            |        | 0.50 1              |                 | 07/18/2025 12:40     |
| 1,2-Dichloropropane           | ND            |        | 0.10 1              |                 | 07/18/2025 12:40     |
| 1,3-Dichloropropane           | ND            |        | 0.50 1              |                 | 07/18/2025 12:40     |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** µg/L

### Volatile Organics

| Client ID                     | Lab ID       | Matrix | Date Collected   |                  | Instrument      | Batch ID |
|-------------------------------|--------------|--------|------------------|------------------|-----------------|----------|
| SB-02-GW                      | 2507A49-002B | Water  | 07/15/2025 11:50 |                  | GC16 07182509.D | 321785   |
| Analytes                      | Result       | RL     | DE               | Date Analyzed    |                 |          |
| 2,2-Dichloropropane           | ND           | 0.50   | 1                | 07/18/2025 12:40 |                 |          |
| 1,1-Dichloropropene           | ND           | 0.50   | 1                | 07/18/2025 12:40 |                 |          |
| cis-1,3-Dichloropropene       | ND           | 0.50   | 1                | 07/18/2025 12:40 |                 |          |
| trans-1,3-Dichloropropene     | ND           | 0.50   | 1                | 07/18/2025 12:40 |                 |          |
| Diisopropyl ether (DIPE)      | ND           | 0.50   | 1                | 07/18/2025 12:40 |                 |          |
| Ethylbenzene                  | ND           | 0.50   | 1                | 07/18/2025 12:40 |                 |          |
| Ethyl tert-butyl ether (ETBE) | ND           | 0.50   | 1                | 07/18/2025 12:40 |                 |          |
| Freon 113                     | ND           | 0.50   | 1                | 07/18/2025 12:40 |                 |          |
| Hexachlorobutadiene           | ND           | 0.50   | 1                | 07/18/2025 12:40 |                 |          |
| Hexachloroethane              | ND           | 0.20   | 1                | 07/18/2025 12:40 |                 |          |
| 2-Hexanone                    | ND           | 0.50   | 1                | 07/18/2025 12:40 |                 |          |
| Isopropylbenzene              | ND           | 0.50   | 1                | 07/18/2025 12:40 |                 |          |
| 4-Isopropyl toluene           | ND           | 0.50   | 1                | 07/18/2025 12:40 |                 |          |
| Methyl-t-butyl ether (MTBE)   | ND           | 0.50   | 1                | 07/18/2025 12:40 |                 |          |
| Methylene chloride            | ND           | 2.0    | 1                | 07/18/2025 12:40 |                 |          |
| 4-Methyl-2-pentanone (MIBK)   | ND           | 0.50   | 1                | 07/18/2025 12:40 |                 |          |
| Naphthalene                   | ND           | 0.30   | 1                | 07/18/2025 12:40 |                 |          |
| n-Propyl benzene              | ND           | 0.50   | 1                | 07/18/2025 12:40 |                 |          |
| Styrene                       | ND           | 2.0    | 1                | 07/18/2025 12:40 |                 |          |
| 1,1,1,2-Tetrachloroethane     | ND           | 0.50   | 1                | 07/18/2025 12:40 |                 |          |
| 1,1,2,2-Tetrachloroethane     | ND           | 0.020  | 1                | 07/18/2025 12:40 |                 |          |
| Tetrachloroethene             | ND           | 0.20   | 1                | 07/18/2025 12:40 |                 |          |
| Toluene                       | ND           | 0.50   | 1                | 07/18/2025 12:40 |                 |          |
| 1,2,3-Trichlorobenzene        | ND           | 0.50   | 1                | 07/18/2025 12:40 |                 |          |
| 1,2,4-Trichlorobenzene        | ND           | 0.50   | 1                | 07/18/2025 12:40 |                 |          |
| 1,1,1-Trichloroethane         | ND           | 0.50   | 1                | 07/18/2025 12:40 |                 |          |
| 1,1,2-Trichloroethane         | ND           | 0.10   | 1                | 07/18/2025 12:40 |                 |          |
| Trichloroethene               | ND           | 0.10   | 1                | 07/18/2025 12:40 |                 |          |
| Trichlorofluoromethane        | ND           | 0.50   | 1                | 07/18/2025 12:40 |                 |          |
| 1,2,3-Trichloropropane        | ND           | 0.0050 | 1                | 07/18/2025 12:40 |                 |          |
| 1,2,4-Trimethylbenzene        | ND           | 0.50   | 1                | 07/18/2025 12:40 |                 |          |
| 1,3,5-Trimethylbenzene        | ND           | 0.50   | 1                | 07/18/2025 12:40 |                 |          |
| Vinyl Chloride                | ND           | 0.0050 | 1                | 07/18/2025 12:40 |                 |          |
| m,p-Xylene                    | ND           | 1.0    | 1                | 07/18/2025 12:40 |                 |          |
| o-Xylene                      | ND           | 0.50   | 1                | 07/18/2025 12:40 |                 |          |
| Xylenes, Total                | ND           | 1.0    | 1                | 07/18/2025 12:40 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** µg/L

### Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-02-GW  | 2507A49-002B | Water  | 07/15/2025 11:50 | GC16 07182509.D | 321785   |

| Analytes             | Result  | RL     | DE | Date Analyzed    |
|----------------------|---------|--------|----|------------------|
| Surrogates           | REC (%) | Limits | DE |                  |
| Dibromofluoromethane | 116     | 70-130 | 1  | 07/18/2025 12:40 |
| Toluene-d8           | 79      | 70-130 | 1  | 07/18/2025 12:40 |
| 4-BFB                | 78      | 70-130 | 1  | 07/18/2025 12:40 |

Analyst(s): CLO

Analytical Comments: b1



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** µg/L

### Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-03-GW  | 2507A49-003B | Water  | 07/15/2025 15:54 | GC16 07182510.D | 321785   |

| Analytes                      | Result | RL    | DE | Date Analyzed    |
|-------------------------------|--------|-------|----|------------------|
| Acetone                       | ND     | 40    | 1  | 07/18/2025 13:45 |
| tert-Amyl methyl ether (TAME) | ND     | 0.50  | 1  | 07/18/2025 13:45 |
| Benzene                       | ND     | 0.20  | 1  | 07/18/2025 13:45 |
| Bromobenzene                  | ND     | 0.50  | 1  | 07/18/2025 13:45 |
| Bromochloromethane            | ND     | 0.50  | 1  | 07/18/2025 13:45 |
| Bromodichloromethane          | ND     | 0.050 | 1  | 07/18/2025 13:45 |
| Bromoform                     | ND     | 0.50  | 1  | 07/18/2025 13:45 |
| Bromomethane                  | ND     | 0.50  | 1  | 07/18/2025 13:45 |
| 2-Butanone (MEK)              | ND     | 5.0   | 1  | 07/18/2025 13:45 |
| t-Butyl alcohol (TBA)         | ND     | 5.0   | 1  | 07/18/2025 13:45 |
| n-Butyl benzene               | ND     | 0.50  | 1  | 07/18/2025 13:45 |
| sec-Butyl benzene             | ND     | 0.50  | 1  | 07/18/2025 13:45 |
| tert-Butyl benzene            | ND     | 0.50  | 1  | 07/18/2025 13:45 |
| Carbon Disulfide              | ND     | 0.50  | 1  | 07/18/2025 13:45 |
| Carbon Tetrachloride          | ND     | 0.050 | 1  | 07/18/2025 13:45 |
| Chlorobenzene                 | ND     | 0.50  | 1  | 07/18/2025 13:45 |
| Chloroethane                  | ND     | 0.50  | 1  | 07/18/2025 13:45 |
| Chloroform                    | ND     | 0.10  | 1  | 07/18/2025 13:45 |
| Chloromethane                 | ND     | 0.50  | 1  | 07/18/2025 13:45 |
| 2-Chlorotoluene               | ND     | 0.50  | 1  | 07/18/2025 13:45 |
| 4-Chlorotoluene               | ND     | 0.50  | 1  | 07/18/2025 13:45 |
| Dibromochloromethane          | ND     | 0.15  | 1  | 07/18/2025 13:45 |
| 1,2-Dibromo-3-chloropropane   | ND     | 0.020 | 1  | 07/18/2025 13:45 |
| 1,2-Dibromoethane (EDB)       | ND     | 0.040 | 1  | 07/18/2025 13:45 |
| Dibromomethane                | ND     | 0.50  | 1  | 07/18/2025 13:45 |
| 1,2-Dichlorobenzene           | ND     | 0.50  | 1  | 07/18/2025 13:45 |
| 1,3-Dichlorobenzene           | ND     | 0.50  | 1  | 07/18/2025 13:45 |
| 1,4-Dichlorobenzene           | ND     | 0.50  | 1  | 07/18/2025 13:45 |
| Dichlorodifluoromethane       | ND     | 0.50  | 1  | 07/18/2025 13:45 |
| 1,1-Dichloroethane            | ND     | 0.50  | 1  | 07/18/2025 13:45 |
| 1,2-Dichloroethane (1,2-DCA)  | ND     | 0.020 | 1  | 07/18/2025 13:45 |
| 1,1-Dichloroethene            | ND     | 0.010 | 1  | 07/18/2025 13:45 |
| cis-1,2-Dichloroethene        | ND     | 0.50  | 1  | 07/18/2025 13:45 |
| trans-1,2-Dichloroethene      | ND     | 0.50  | 1  | 07/18/2025 13:45 |
| 1,2-Dichloropropane           | ND     | 0.10  | 1  | 07/18/2025 13:45 |
| 1,3-Dichloropropane           | ND     | 0.50  | 1  | 07/18/2025 13:45 |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** µg/L

### Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-03-GW  | 2507A49-003B | Water  | 07/15/2025 15:54 | GC16 07182510.D | 321785   |

| Analytes                      | Result | RL     | DE | Date Analyzed    |
|-------------------------------|--------|--------|----|------------------|
| 2,2-Dichloropropane           | ND     | 0.50   | 1  | 07/18/2025 13:45 |
| 1,1-Dichloropropene           | ND     | 0.50   | 1  | 07/18/2025 13:45 |
| cis-1,3-Dichloropropene       | ND     | 0.50   | 1  | 07/18/2025 13:45 |
| trans-1,3-Dichloropropene     | ND     | 0.50   | 1  | 07/18/2025 13:45 |
| Diisopropyl ether (DIPE)      | ND     | 0.50   | 1  | 07/18/2025 13:45 |
| Ethylbenzene                  | ND     | 0.50   | 1  | 07/18/2025 13:45 |
| Ethyl tert-butyl ether (ETBE) | ND     | 0.50   | 1  | 07/18/2025 13:45 |
| Freon 113                     | ND     | 0.50   | 1  | 07/18/2025 13:45 |
| Hexachlorobutadiene           | ND     | 0.50   | 1  | 07/18/2025 13:45 |
| Hexachloroethane              | ND     | 0.20   | 1  | 07/18/2025 13:45 |
| 2-Hexanone                    | ND     | 0.50   | 1  | 07/18/2025 13:45 |
| Isopropylbenzene              | ND     | 0.50   | 1  | 07/18/2025 13:45 |
| 4-Isopropyl toluene           | ND     | 0.50   | 1  | 07/18/2025 13:45 |
| Methyl-t-butyl ether (MTBE)   | ND     | 0.50   | 1  | 07/18/2025 13:45 |
| Methylene chloride            | ND     | 2.0    | 1  | 07/18/2025 13:45 |
| 4-Methyl-2-pentanone (MIBK)   | ND     | 0.50   | 1  | 07/18/2025 13:45 |
| Naphthalene                   | ND     | 0.30   | 1  | 07/18/2025 13:45 |
| n-Propyl benzene              | ND     | 0.50   | 1  | 07/18/2025 13:45 |
| Styrene                       | ND     | 2.0    | 1  | 07/18/2025 13:45 |
| 1,1,1,2-Tetrachloroethane     | ND     | 0.50   | 1  | 07/18/2025 13:45 |
| 1,1,2,2-Tetrachloroethane     | ND     | 0.020  | 1  | 07/18/2025 13:45 |
| Tetrachloroethene             | ND     | 0.20   | 1  | 07/18/2025 13:45 |
| Toluene                       | ND     | 0.50   | 1  | 07/18/2025 13:45 |
| 1,2,3-Trichlorobenzene        | ND     | 0.50   | 1  | 07/18/2025 13:45 |
| 1,2,4-Trichlorobenzene        | ND     | 0.50   | 1  | 07/18/2025 13:45 |
| 1,1,1-Trichloroethane         | ND     | 0.50   | 1  | 07/18/2025 13:45 |
| 1,1,2-Trichloroethane         | ND     | 0.10   | 1  | 07/18/2025 13:45 |
| Trichloroethene               | ND     | 0.10   | 1  | 07/18/2025 13:45 |
| Trichlorofluoromethane        | ND     | 0.50   | 1  | 07/18/2025 13:45 |
| 1,2,3-Trichloropropane        | ND     | 0.0050 | 1  | 07/18/2025 13:45 |
| 1,2,4-Trimethylbenzene        | ND     | 0.50   | 1  | 07/18/2025 13:45 |
| 1,3,5-Trimethylbenzene        | ND     | 0.50   | 1  | 07/18/2025 13:45 |
| Vinyl Chloride                | ND     | 0.0050 | 1  | 07/18/2025 13:45 |
| m,p-Xylene                    | ND     | 1.0    | 1  | 07/18/2025 13:45 |
| o-Xylene                      | ND     | 0.50   | 1  | 07/18/2025 13:45 |
| Xylenes, Total                | ND     | 1.0    | 1  | 07/18/2025 13:45 |

(Cont.)



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** µg/L

### Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-03-GW  | 2507A49-003B | Water  | 07/15/2025 15:54 | GC16 07182510.D | 321785   |

| Analytes             | Result         | RL            | DE        | Date Analyzed    |
|----------------------|----------------|---------------|-----------|------------------|
| <u>Surrogates</u>    | <u>REC (%)</u> | <u>Limits</u> | <u>DE</u> |                  |
| Dibromofluoromethane | 107            | 70-130        | 1         | 07/18/2025 13:45 |
| Toluene-d8           | 93             | 70-130        | 1         | 07/18/2025 13:45 |
| 4-BFB                | 82             | 70-130        | 1         | 07/18/2025 13:45 |

Analyst(s): CLO

Analytical Comments: b1





## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** µg/L

### Volatile Organics

| Client ID                     | Lab ID       | Matrix | Date Collected   |                  | Instrument      | Batch ID |
|-------------------------------|--------------|--------|------------------|------------------|-----------------|----------|
| SB-04-GW                      | 2507A49-004B | Water  | 07/16/2025 11:11 |                  | GC16 07182511.D | 321785   |
| Analytes                      | Result       | RL     | DE               | Date Analyzed    |                 |          |
| Acetone                       | ND           | 40     | 1                | 07/18/2025 14:26 |                 |          |
| tert-Amyl methyl ether (TAME) | ND           | 0.50   | 1                | 07/18/2025 14:26 |                 |          |
| Benzene                       | ND           | 0.20   | 1                | 07/18/2025 14:26 |                 |          |
| Bromobenzene                  | ND           | 0.50   | 1                | 07/18/2025 14:26 |                 |          |
| Bromochloromethane            | ND           | 0.50   | 1                | 07/18/2025 14:26 |                 |          |
| Bromodichloromethane          | ND           | 0.050  | 1                | 07/18/2025 14:26 |                 |          |
| Bromoform                     | ND           | 0.50   | 1                | 07/18/2025 14:26 |                 |          |
| Bromomethane                  | ND           | 0.50   | 1                | 07/18/2025 14:26 |                 |          |
| 2-Butanone (MEK)              | ND           | 5.0    | 1                | 07/18/2025 14:26 |                 |          |
| t-Butyl alcohol (TBA)         | ND           | 5.0    | 1                | 07/18/2025 14:26 |                 |          |
| n-Butyl benzene               | ND           | 0.50   | 1                | 07/18/2025 14:26 |                 |          |
| sec-Butyl benzene             | ND           | 0.50   | 1                | 07/18/2025 14:26 |                 |          |
| tert-Butyl benzene            | ND           | 0.50   | 1                | 07/18/2025 14:26 |                 |          |
| Carbon Disulfide              | ND           | 0.50   | 1                | 07/18/2025 14:26 |                 |          |
| Carbon Tetrachloride          | ND           | 0.050  | 1                | 07/18/2025 14:26 |                 |          |
| Chlorobenzene                 | ND           | 0.50   | 1                | 07/18/2025 14:26 |                 |          |
| Chloroethane                  | ND           | 0.50   | 1                | 07/18/2025 14:26 |                 |          |
| Chloroform                    | ND           | 0.10   | 1                | 07/18/2025 14:26 |                 |          |
| Chloromethane                 | ND           | 0.50   | 1                | 07/18/2025 14:26 |                 |          |
| 2-Chlorotoluene               | ND           | 0.50   | 1                | 07/18/2025 14:26 |                 |          |
| 4-Chlorotoluene               | ND           | 0.50   | 1                | 07/18/2025 14:26 |                 |          |
| Dibromochloromethane          | ND           | 0.15   | 1                | 07/18/2025 14:26 |                 |          |
| 1,2-Dibromo-3-chloropropane   | ND           | 0.020  | 1                | 07/18/2025 14:26 |                 |          |
| 1,2-Dibromoethane (EDB)       | ND           | 0.040  | 1                | 07/18/2025 14:26 |                 |          |
| Dibromomethane                | ND           | 0.50   | 1                | 07/18/2025 14:26 |                 |          |
| 1,2-Dichlorobenzene           | ND           | 0.50   | 1                | 07/18/2025 14:26 |                 |          |
| 1,3-Dichlorobenzene           | ND           | 0.50   | 1                | 07/18/2025 14:26 |                 |          |
| 1,4-Dichlorobenzene           | ND           | 0.50   | 1                | 07/18/2025 14:26 |                 |          |
| Dichlorodifluoromethane       | ND           | 0.50   | 1                | 07/18/2025 14:26 |                 |          |
| 1,1-Dichloroethane            | ND           | 0.50   | 1                | 07/18/2025 14:26 |                 |          |
| 1,2-Dichloroethane (1,2-DCA)  | ND           | 0.020  | 1                | 07/18/2025 14:26 |                 |          |
| 1,1-Dichloroethene            | ND           | 0.010  | 1                | 07/18/2025 14:26 |                 |          |
| cis-1,2-Dichloroethene        | ND           | 0.50   | 1                | 07/18/2025 14:26 |                 |          |
| trans-1,2-Dichloroethene      | ND           | 0.50   | 1                | 07/18/2025 14:26 |                 |          |
| 1,2-Dichloropropane           | ND           | 0.10   | 1                | 07/18/2025 14:26 |                 |          |
| 1,3-Dichloropropane           | ND           | 0.50   | 1                | 07/18/2025 14:26 |                 |          |

(Cont.)



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** µg/L

### Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-04-GW  | 2507A49-004B | Water  | 07/16/2025 11:11 | GC16 07182511.D | 321785   |

| Analytes                      | Result | RL     | DE | Date Analyzed    |
|-------------------------------|--------|--------|----|------------------|
| 2,2-Dichloropropane           | ND     | 0.50   | 1  | 07/18/2025 14:26 |
| 1,1-Dichloropropene           | ND     | 0.50   | 1  | 07/18/2025 14:26 |
| cis-1,3-Dichloropropene       | ND     | 0.50   | 1  | 07/18/2025 14:26 |
| trans-1,3-Dichloropropene     | ND     | 0.50   | 1  | 07/18/2025 14:26 |
| Diisopropyl ether (DIPE)      | ND     | 0.50   | 1  | 07/18/2025 14:26 |
| Ethylbenzene                  | ND     | 0.50   | 1  | 07/18/2025 14:26 |
| Ethyl tert-butyl ether (ETBE) | ND     | 0.50   | 1  | 07/18/2025 14:26 |
| Freon 113                     | ND     | 0.50   | 1  | 07/18/2025 14:26 |
| Hexachlorobutadiene           | ND     | 0.50   | 1  | 07/18/2025 14:26 |
| Hexachloroethane              | ND     | 0.20   | 1  | 07/18/2025 14:26 |
| 2-Hexanone                    | ND     | 0.50   | 1  | 07/18/2025 14:26 |
| Isopropylbenzene              | ND     | 0.50   | 1  | 07/18/2025 14:26 |
| 4-Isopropyl toluene           | ND     | 0.50   | 1  | 07/18/2025 14:26 |
| Methyl-t-butyl ether (MTBE)   | ND     | 0.50   | 1  | 07/18/2025 14:26 |
| Methylene chloride            | ND     | 2.0    | 1  | 07/18/2025 14:26 |
| 4-Methyl-2-pentanone (MIBK)   | ND     | 0.50   | 1  | 07/18/2025 14:26 |
| Naphthalene                   | ND     | 0.30   | 1  | 07/18/2025 14:26 |
| n-Propyl benzene              | ND     | 0.50   | 1  | 07/18/2025 14:26 |
| Styrene                       | ND     | 2.0    | 1  | 07/18/2025 14:26 |
| 1,1,1,2-Tetrachloroethane     | ND     | 0.50   | 1  | 07/18/2025 14:26 |
| 1,1,2,2-Tetrachloroethane     | ND     | 0.020  | 1  | 07/18/2025 14:26 |
| Tetrachloroethene             | ND     | 0.20   | 1  | 07/18/2025 14:26 |
| Toluene                       | ND     | 0.50   | 1  | 07/18/2025 14:26 |
| 1,2,3-Trichlorobenzene        | ND     | 0.50   | 1  | 07/18/2025 14:26 |
| 1,2,4-Trichlorobenzene        | ND     | 0.50   | 1  | 07/18/2025 14:26 |
| 1,1,1-Trichloroethane         | ND     | 0.50   | 1  | 07/18/2025 14:26 |
| 1,1,2-Trichloroethane         | ND     | 0.10   | 1  | 07/18/2025 14:26 |
| Trichloroethene               | ND     | 0.10   | 1  | 07/18/2025 14:26 |
| Trichlorofluoromethane        | ND     | 0.50   | 1  | 07/18/2025 14:26 |
| 1,2,3-Trichloropropane        | ND     | 0.0050 | 1  | 07/18/2025 14:26 |
| 1,2,4-Trimethylbenzene        | ND     | 0.50   | 1  | 07/18/2025 14:26 |
| 1,3,5-Trimethylbenzene        | ND     | 0.50   | 1  | 07/18/2025 14:26 |
| Vinyl Chloride                | ND     | 0.0050 | 1  | 07/18/2025 14:26 |
| m,p-Xylene                    | ND     | 1.0    | 1  | 07/18/2025 14:26 |
| o-Xylene                      | ND     | 0.50   | 1  | 07/18/2025 14:26 |
| Xylenes, Total                | ND     | 1.0    | 1  | 07/18/2025 14:26 |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** µg/L

### Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-04-GW  | 2507A49-004B | Water  | 07/16/2025 11:11 | GC16 07182511.D | 321785   |

| Analytes             | Result  | RL     | DE | Date Analyzed    |
|----------------------|---------|--------|----|------------------|
| Surrogates           | REC (%) | Limits | DE |                  |
| Dibromofluoromethane | 108     | 70-130 | 1  | 07/18/2025 14:26 |
| Toluene-d8           | 94      | 70-130 | 1  | 07/18/2025 14:26 |
| 4-BFB                | 80      | 70-130 | 1  | 07/18/2025 14:26 |

Analyst(s): CLO

Analytical Comments: b1



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** µg/L

### Volatile Organics

| Client ID                     | Lab ID        | Matrix | Date Collected   | Instrument      | Batch ID             |
|-------------------------------|---------------|--------|------------------|-----------------|----------------------|
| SB-05-GW                      | 2507A49-005B  | Water  | 07/16/2025 09:36 | GC16 07182512.D | 321785               |
| <u>Analytes</u>               | <u>Result</u> |        | <u>RL</u>        | <u>DE</u>       | <u>Date Analyzed</u> |
| Acetone                       | ND            |        | 40               | 1               | 07/18/2025 15:08     |
| tert-Amyl methyl ether (TAME) | ND            |        | 0.50             | 1               | 07/18/2025 15:08     |
| Benzene                       | ND            |        | 0.20             | 1               | 07/18/2025 15:08     |
| Bromobenzene                  | ND            |        | 0.50             | 1               | 07/18/2025 15:08     |
| Bromochloromethane            | ND            |        | 0.50             | 1               | 07/18/2025 15:08     |
| Bromodichloromethane          | ND            |        | 0.050            | 1               | 07/18/2025 15:08     |
| Bromoform                     | ND            |        | 0.50             | 1               | 07/18/2025 15:08     |
| Bromomethane                  | ND            |        | 0.50             | 1               | 07/18/2025 15:08     |
| 2-Butanone (MEK)              | ND            |        | 5.0              | 1               | 07/18/2025 15:08     |
| t-Butyl alcohol (TBA)         | ND            |        | 5.0              | 1               | 07/18/2025 15:08     |
| n-Butyl benzene               | ND            |        | 0.50             | 1               | 07/18/2025 15:08     |
| sec-Butyl benzene             | ND            |        | 0.50             | 1               | 07/18/2025 15:08     |
| tert-Butyl benzene            | ND            |        | 0.50             | 1               | 07/18/2025 15:08     |
| Carbon Disulfide              | ND            |        | 0.50             | 1               | 07/18/2025 15:08     |
| Carbon Tetrachloride          | ND            |        | 0.050            | 1               | 07/18/2025 15:08     |
| Chlorobenzene                 | ND            |        | 0.50             | 1               | 07/18/2025 15:08     |
| Chloroethane                  | ND            |        | 0.50             | 1               | 07/18/2025 15:08     |
| Chloroform                    | ND            |        | 0.10             | 1               | 07/18/2025 15:08     |
| Chloromethane                 | ND            |        | 0.50             | 1               | 07/18/2025 15:08     |
| 2-Chlorotoluene               | ND            |        | 0.50             | 1               | 07/18/2025 15:08     |
| 4-Chlorotoluene               | ND            |        | 0.50             | 1               | 07/18/2025 15:08     |
| Dibromochloromethane          | ND            |        | 0.15             | 1               | 07/18/2025 15:08     |
| 1,2-Dibromo-3-chloropropane   | ND            |        | 0.020            | 1               | 07/18/2025 15:08     |
| 1,2-Dibromoethane (EDB)       | ND            |        | 0.040            | 1               | 07/18/2025 15:08     |
| Dibromomethane                | ND            |        | 0.50             | 1               | 07/18/2025 15:08     |
| 1,2-Dichlorobenzene           | ND            |        | 0.50             | 1               | 07/18/2025 15:08     |
| 1,3-Dichlorobenzene           | ND            |        | 0.50             | 1               | 07/18/2025 15:08     |
| 1,4-Dichlorobenzene           | ND            |        | 0.50             | 1               | 07/18/2025 15:08     |
| Dichlorodifluoromethane       | ND            |        | 0.50             | 1               | 07/18/2025 15:08     |
| 1,1-Dichloroethane            | ND            |        | 0.50             | 1               | 07/18/2025 15:08     |
| 1,2-Dichloroethane (1,2-DCA)  | ND            |        | 0.020            | 1               | 07/18/2025 15:08     |
| 1,1-Dichloroethene            | ND            |        | 0.010            | 1               | 07/18/2025 15:08     |
| cis-1,2-Dichloroethene        | ND            |        | 0.50             | 1               | 07/18/2025 15:08     |
| trans-1,2-Dichloroethene      | ND            |        | 0.50             | 1               | 07/18/2025 15:08     |
| 1,2-Dichloropropane           | ND            |        | 0.10             | 1               | 07/18/2025 15:08     |
| 1,3-Dichloropropane           | ND            |        | 0.50             | 1               | 07/18/2025 15:08     |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** µg/L

### Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-05-GW  | 2507A49-005B | Water  | 07/16/2025 09:36 | GC16 07182512.D | 321785   |

| Analytes                      | Result | RL     | DE | Date Analyzed    |
|-------------------------------|--------|--------|----|------------------|
| 2,2-Dichloropropane           | ND     | 0.50   | 1  | 07/18/2025 15:08 |
| 1,1-Dichloropropene           | ND     | 0.50   | 1  | 07/18/2025 15:08 |
| cis-1,3-Dichloropropene       | ND     | 0.50   | 1  | 07/18/2025 15:08 |
| trans-1,3-Dichloropropene     | ND     | 0.50   | 1  | 07/18/2025 15:08 |
| Diisopropyl ether (DIPE)      | ND     | 0.50   | 1  | 07/18/2025 15:08 |
| Ethylbenzene                  | ND     | 0.50   | 1  | 07/18/2025 15:08 |
| Ethyl tert-butyl ether (ETBE) | ND     | 0.50   | 1  | 07/18/2025 15:08 |
| Freon 113                     | ND     | 0.50   | 1  | 07/18/2025 15:08 |
| Hexachlorobutadiene           | ND     | 0.50   | 1  | 07/18/2025 15:08 |
| Hexachloroethane              | ND     | 0.20   | 1  | 07/18/2025 15:08 |
| 2-Hexanone                    | ND     | 0.50   | 1  | 07/18/2025 15:08 |
| Isopropylbenzene              | ND     | 0.50   | 1  | 07/18/2025 15:08 |
| 4-Isopropyl toluene           | ND     | 0.50   | 1  | 07/18/2025 15:08 |
| Methyl-t-butyl ether (MTBE)   | ND     | 0.50   | 1  | 07/18/2025 15:08 |
| Methylene chloride            | ND     | 2.0    | 1  | 07/18/2025 15:08 |
| 4-Methyl-2-pentanone (MIBK)   | ND     | 0.50   | 1  | 07/18/2025 15:08 |
| Naphthalene                   | ND     | 0.30   | 1  | 07/18/2025 15:08 |
| n-Propyl benzene              | ND     | 0.50   | 1  | 07/18/2025 15:08 |
| Styrene                       | ND     | 2.0    | 1  | 07/18/2025 15:08 |
| 1,1,1,2-Tetrachloroethane     | ND     | 0.50   | 1  | 07/18/2025 15:08 |
| 1,1,2,2-Tetrachloroethane     | ND     | 0.020  | 1  | 07/18/2025 15:08 |
| Tetrachloroethene             | ND     | 0.20   | 1  | 07/18/2025 15:08 |
| Toluene                       | ND     | 0.50   | 1  | 07/18/2025 15:08 |
| 1,2,3-Trichlorobenzene        | ND     | 0.50   | 1  | 07/18/2025 15:08 |
| 1,2,4-Trichlorobenzene        | ND     | 0.50   | 1  | 07/18/2025 15:08 |
| 1,1,1-Trichloroethane         | ND     | 0.50   | 1  | 07/18/2025 15:08 |
| 1,1,2-Trichloroethane         | ND     | 0.10   | 1  | 07/18/2025 15:08 |
| Trichloroethene               | ND     | 0.10   | 1  | 07/18/2025 15:08 |
| Trichlorofluoromethane        | ND     | 0.50   | 1  | 07/18/2025 15:08 |
| 1,2,3-Trichloropropane        | ND     | 0.0050 | 1  | 07/18/2025 15:08 |
| 1,2,4-Trimethylbenzene        | ND     | 0.50   | 1  | 07/18/2025 15:08 |
| 1,3,5-Trimethylbenzene        | ND     | 0.50   | 1  | 07/18/2025 15:08 |
| Vinyl Chloride                | ND     | 0.0050 | 1  | 07/18/2025 15:08 |
| m,p-Xylene                    | ND     | 1.0    | 1  | 07/18/2025 15:08 |
| o-Xylene                      | ND     | 0.50   | 1  | 07/18/2025 15:08 |
| Xylenes, Total                | ND     | 1.0    | 1  | 07/18/2025 15:08 |

(Cont.)



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** µg/L

### Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-05-GW  | 2507A49-005B | Water  | 07/16/2025 09:36 | GC16 07182512.D | 321785   |

| Analytes             | Result         | RL            | DE        | Date Analyzed    |
|----------------------|----------------|---------------|-----------|------------------|
| <u>Surrogates</u>    | <u>REC (%)</u> | <u>Limits</u> | <u>DE</u> |                  |
| Dibromofluoromethane | 107            | 70-130        | 1         | 07/18/2025 15:08 |
| Toluene-d8           | 94             | 70-130        | 1         | 07/18/2025 15:08 |
| 4-BFB                | 78             | 70-130        | 1         | 07/18/2025 15:08 |

Analyst(s): CLO

Analytical Comments: b1



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/17/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** E625  
**Analytical Method:** SW8270E  
**Unit:** µg/L

### Semi-Volatile Organics

| Client ID                     | Lab ID       | Matrix | Date Collected   |                  | Instrument      | Batch ID |
|-------------------------------|--------------|--------|------------------|------------------|-----------------|----------|
| SB-01-GW                      | 2507A49-001C | Water  | 07/15/2025 13:35 |                  | GC48 07182513.D | 321597   |
| Analytes                      | Result       | RL     | DE               | Date Analyzed    |                 |          |
| Acenaphthene                  | ND           | 0.024  | 5                | 07/18/2025 16:35 |                 |          |
| Acenaphthylene                | ND           | 0.024  | 5                | 07/18/2025 16:35 |                 |          |
| Acetochlor                    | ND           | 4.9    | 5                | 07/18/2025 16:35 |                 |          |
| Anthracene                    | ND           | 0.024  | 5                | 07/18/2025 16:35 |                 |          |
| Benzidine                     | ND           | 24     | 5                | 07/18/2025 16:35 |                 |          |
| Benzo (a) anthracene          | ND           | 0.24   | 5                | 07/18/2025 16:35 |                 |          |
| Benzo (a) pyrene              | ND           | 0.024  | 5                | 07/18/2025 16:35 |                 |          |
| Benzo (b) fluoranthene        | ND           | 0.049  | 5                | 07/18/2025 16:35 |                 |          |
| Benzo (g,h,i) perylene        | ND           | 0.049  | 5                | 07/18/2025 16:35 |                 |          |
| Benzo (k) fluoranthene        | ND           | 0.049  | 5                | 07/18/2025 16:35 |                 |          |
| Benzoic Acid                  | ND           | 24     | 5                | 07/18/2025 16:35 |                 |          |
| Benzyl Alcohol                | ND           | 24     | 5                | 07/18/2025 16:35 |                 |          |
| 1,1-Biphenyl                  | ND           | 0.098  | 5                | 07/18/2025 16:35 |                 |          |
| Bis (2-chloroethoxy) Methane  | ND           | 4.9    | 5                | 07/18/2025 16:35 |                 |          |
| Bis (2-chloroethyl) Ether     | ND           | 0.024  | 5                | 07/18/2025 16:35 |                 |          |
| Bis (2-chloroisopropyl) Ether | ND           | 0.049  | 5                | 07/18/2025 16:35 |                 |          |
| Bis (2-ethylhexyl) Adipate    | ND           | 4.9    | 5                | 07/18/2025 16:35 |                 |          |
| Bis (2-ethylhexyl) Phthalate  | ND           | 1.2    | 5                | 07/18/2025 16:35 |                 |          |
| 4-Bromophenyl Phenyl Ether    | ND           | 4.9    | 5                | 07/18/2025 16:35 |                 |          |
| Butylbenzyl Phthalate         | ND           | 1.2    | 5                | 07/18/2025 16:35 |                 |          |
| 4-Chloroaniline               | ND           | 0.024  | 5                | 07/18/2025 16:35 |                 |          |
| 4-Chloro-3-methylphenol       | ND           | 4.9    | 5                | 07/18/2025 16:35 |                 |          |
| 2-Chloronaphthalene           | ND           | 4.9    | 5                | 07/18/2025 16:35 |                 |          |
| 2-Chlorophenol                | ND           | 0.24   | 5                | 07/18/2025 16:35 |                 |          |
| 4-Chlorophenyl Phenyl Ether   | ND           | 4.9    | 5                | 07/18/2025 16:35 |                 |          |
| Chrysene                      | ND           | 0.024  | 5                | 07/18/2025 16:35 |                 |          |
| Dibenzo (a,h) anthracene      | ND           | 0.049  | 5                | 07/18/2025 16:35 |                 |          |
| Dibenzofuran                  | ND           | 0.024  | 5                | 07/18/2025 16:35 |                 |          |
| Di-n-butyl Phthalate          | ND           | 1.2    | 5                | 07/18/2025 16:35 |                 |          |
| 1,2-Dichlorobenzene           | ND           | 4.9    | 5                | 07/18/2025 16:35 |                 |          |
| 1,3-Dichlorobenzene           | ND           | 4.9    | 5                | 07/18/2025 16:35 |                 |          |
| 1,4-Dichlorobenzene           | ND           | 4.9    | 5                | 07/18/2025 16:35 |                 |          |
| 3,3-Dichlorobenzidine         | ND           | 0.049  | 5                | 07/18/2025 16:35 |                 |          |
| 2,4-Dichlorophenol            | ND           | 0.049  | 5                | 07/18/2025 16:35 |                 |          |
| 2,6-Dichlorophenol            | ND           | 0.24   | 5                | 07/18/2025 16:35 |                 |          |
| Diethyl Phthalate             | ND           | 0.24   | 5                | 07/18/2025 16:35 |                 |          |

(Cont.)





## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/17/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** E625  
**Analytical Method:** SW8270E  
**Unit:** µg/L

### Semi-Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-01-GW  | 2507A49-001C | Water  | 07/15/2025 13:35 | GC48 07182513.D | 321597   |

| Analytes                        | Result | RL    | DE | Date Analyzed    |
|---------------------------------|--------|-------|----|------------------|
| 2,4-Dimethylphenol              | ND     | 4.9   | 5  | 07/18/2025 16:35 |
| Dimethyl Phthalate              | ND     | 0.049 | 5  | 07/18/2025 16:35 |
| 4,6-Dinitro-2-methylphenol      | ND     | 24    | 5  | 07/18/2025 16:35 |
| 2,4-Dinitrophenol               | ND     | 4.9   | 5  | 07/18/2025 16:35 |
| 2,4-Dinitrotoluene              | ND     | 0.24  | 5  | 07/18/2025 16:35 |
| 2,6-Dinitrotoluene              | ND     | 0.24  | 5  | 07/18/2025 16:35 |
| Di-n-octyl Phthalate            | ND     | 12    | 5  | 07/18/2025 16:35 |
| 1,2-Diphenylhydrazine           | ND     | 4.9   | 5  | 07/18/2025 16:35 |
| Fluoranthene                    | ND     | 0.049 | 5  | 07/18/2025 16:35 |
| Fluorene                        | ND     | 0.049 | 5  | 07/18/2025 16:35 |
| Hexachlorobenzene               | ND     | 0.024 | 5  | 07/18/2025 16:35 |
| Hexachlorobutadiene             | ND     | 0.024 | 5  | 07/18/2025 16:35 |
| Hexachlorocyclopentadiene       | ND     | 24    | 5  | 07/18/2025 16:35 |
| Hexachloroethane                | ND     | 0.049 | 5  | 07/18/2025 16:35 |
| Indeno (1,2,3-cd) pyrene        | ND     | 0.049 | 5  | 07/18/2025 16:35 |
| Isophorone                      | ND     | 4.9   | 5  | 07/18/2025 16:35 |
| 1-Methylnaphthalene             | ND     | 0.024 | 5  | 07/18/2025 16:35 |
| 2-Methylnaphthalene             | ND     | 0.024 | 5  | 07/18/2025 16:35 |
| 2-Methylphenol (o-Cresol)       | ND     | 4.9   | 5  | 07/18/2025 16:35 |
| 3 & 4-Methylphenol (m,p-Cresol) | ND     | 4.9   | 5  | 07/18/2025 16:35 |
| Naphthalene                     | ND     | 0.049 | 5  | 07/18/2025 16:35 |
| 2-Nitroaniline                  | ND     | 24    | 5  | 07/18/2025 16:35 |
| 3-Nitroaniline                  | ND     | 24    | 5  | 07/18/2025 16:35 |
| 4-Nitroaniline                  | ND     | 24    | 5  | 07/18/2025 16:35 |
| Nitrobenzene                    | ND     | 4.9   | 5  | 07/18/2025 16:35 |
| 2-Nitrophenol                   | ND     | 24    | 5  | 07/18/2025 16:35 |
| 4-Nitrophenol                   | ND     | 24    | 5  | 07/18/2025 16:35 |
| N-Nitrosodiphenylamine          | ND     | 4.9   | 5  | 07/18/2025 16:35 |
| N-Nitrosodi-n-propylamine       | ND     | 4.9   | 5  | 07/18/2025 16:35 |
| Pentachlorophenol               | ND     | 1.2   | 5  | 07/18/2025 16:35 |
| Phenanthrene                    | ND     | 0.024 | 5  | 07/18/2025 16:35 |
| Phenol                          | ND     | 0.20  | 5  | 07/18/2025 16:35 |
| Pyrene                          | ND     | 0.024 | 5  | 07/18/2025 16:35 |
| Pyridine                        | ND     | 4.9   | 5  | 07/18/2025 16:35 |
| 1,2,4-Trichlorobenzene          | ND     | 4.9   | 5  | 07/18/2025 16:35 |
| 2,4,5-Trichlorophenol           | ND     | 0.049 | 5  | 07/18/2025 16:35 |

(Cont.)



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/17/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** E625  
**Analytical Method:** SW8270E  
**Unit:** µg/L

### Semi-Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-01-GW  | 2507A49-001C | Water  | 07/15/2025 13:35 | GC48 07182513.D | 321597   |

| Analytes                  | Result | RL    | DE | Date Analyzed    |
|---------------------------|--------|-------|----|------------------|
| 2,4,6-Trichlorophenol     | ND     | 0.049 | 5  | 07/18/2025 16:35 |
| N-Nitrosodimethylamine    | ND     | 4.9   | 5  | 07/18/2025 16:35 |
| 2,3,4,6-Tetrachlorophenol | ND     | 4.9   | 5  | 07/18/2025 16:35 |

| Surrogates           | REC (%) | Limits | DE | Date Analyzed    |
|----------------------|---------|--------|----|------------------|
| 2-Fluorophenol       | 35      | 30-130 | 5  | 07/18/2025 16:35 |
| Phenol-d5            | 23      | 20-130 | 5  | 07/18/2025 16:35 |
| Nitrobenzene-d5      | 65      | 60-130 | 5  | 07/18/2025 16:35 |
| 2-Fluorobiphenyl     | 80      | 50-130 | 5  | 07/18/2025 16:35 |
| 2,4,6-Tribromophenol | 84      | 60-140 | 5  | 07/18/2025 16:35 |
| 4-Terphenyl-d14      | 82      | 40-130 | 5  | 07/18/2025 16:35 |

Analyst(s): LAT

Analytical Comments: a3,b1



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/17/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** E625  
**Analytical Method:** SW8270E  
**Unit:** µg/L

### Semi-Volatile Organics

| Client ID                     | Lab ID       | Matrix | Date Collected   |                  | Instrument      | Batch ID |
|-------------------------------|--------------|--------|------------------|------------------|-----------------|----------|
| SB-02-GW                      | 2507A49-002C | Water  | 07/15/2025 11:50 |                  | GC48 07182514.D | 321597   |
| Analytes                      | Result       | RL     | DE               | Date Analyzed    |                 |          |
| Acenaphthene                  | ND           | 0.0051 | 1                | 07/18/2025 17:02 |                 |          |
| Acenaphthylene                | ND           | 0.0051 | 1                | 07/18/2025 17:02 |                 |          |
| Acetochlor                    | ND           | 1.0    | 1                | 07/18/2025 17:02 |                 |          |
| Anthracene                    | ND           | 0.0051 | 1                | 07/18/2025 17:02 |                 |          |
| Benzidine                     | ND           | 5.1    | 1                | 07/18/2025 17:02 |                 |          |
| Benzo (a) anthracene          | ND           | 0.051  | 1                | 07/18/2025 17:02 |                 |          |
| Benzo (a) pyrene              | ND           | 0.0051 | 1                | 07/18/2025 17:02 |                 |          |
| Benzo (b) fluoranthene        | ND           | 0.010  | 1                | 07/18/2025 17:02 |                 |          |
| Benzo (g,h,i) perylene        | ND           | 0.010  | 1                | 07/18/2025 17:02 |                 |          |
| Benzo (k) fluoranthene        | ND           | 0.010  | 1                | 07/18/2025 17:02 |                 |          |
| Benzoic Acid                  | ND           | 5.1    | 1                | 07/18/2025 17:02 |                 |          |
| Benzyl Alcohol                | ND           | 5.1    | 1                | 07/18/2025 17:02 |                 |          |
| 1,1-Biphenyl                  | ND           | 0.020  | 1                | 07/18/2025 17:02 |                 |          |
| Bis (2-chloroethoxy) Methane  | ND           | 1.0    | 1                | 07/18/2025 17:02 |                 |          |
| Bis (2-chloroethyl) Ether     | ND           | 0.0051 | 1                | 07/18/2025 17:02 |                 |          |
| Bis (2-chloroisopropyl) Ether | ND           | 0.010  | 1                | 07/18/2025 17:02 |                 |          |
| Bis (2-ethylhexyl) Adipate    | ND           | 1.0    | 1                | 07/18/2025 17:02 |                 |          |
| Bis (2-ethylhexyl) Phthalate  | ND           | 0.26   | 1                | 07/18/2025 17:02 |                 |          |
| 4-Bromophenyl Phenyl Ether    | ND           | 1.0    | 1                | 07/18/2025 17:02 |                 |          |
| Butylbenzyl Phthalate         | ND           | 0.26   | 1                | 07/18/2025 17:02 |                 |          |
| 4-Chloroaniline               | ND           | 0.0051 | 1                | 07/18/2025 17:02 |                 |          |
| 4-Chloro-3-methylphenol       | ND           | 1.0    | 1                | 07/18/2025 17:02 |                 |          |
| 2-Chloronaphthalene           | ND           | 1.0    | 1                | 07/18/2025 17:02 |                 |          |
| 2-Chlorophenol                | ND           | 0.051  | 1                | 07/18/2025 17:02 |                 |          |
| 4-Chlorophenyl Phenyl Ether   | ND           | 1.0    | 1                | 07/18/2025 17:02 |                 |          |
| Chrysene                      | ND           | 0.0051 | 1                | 07/18/2025 17:02 |                 |          |
| Dibenzo (a,h) anthracene      | ND           | 0.010  | 1                | 07/18/2025 17:02 |                 |          |
| Dibenzofuran                  | ND           | 0.0051 | 1                | 07/18/2025 17:02 |                 |          |
| Di-n-butyl Phthalate          | ND           | 0.26   | 1                | 07/18/2025 17:02 |                 |          |
| 1,2-Dichlorobenzene           | ND           | 1.0    | 1                | 07/18/2025 17:02 |                 |          |
| 1,3-Dichlorobenzene           | ND           | 1.0    | 1                | 07/18/2025 17:02 |                 |          |
| 1,4-Dichlorobenzene           | ND           | 1.0    | 1                | 07/18/2025 17:02 |                 |          |
| 3,3-Dichlorobenzidine         | ND           | 0.010  | 1                | 07/18/2025 17:02 |                 |          |
| 2,4-Dichlorophenol            | ND           | 0.010  | 1                | 07/18/2025 17:02 |                 |          |
| 2,6-Dichlorophenol            | ND           | 0.051  | 1                | 07/18/2025 17:02 |                 |          |
| Diethyl Phthalate             | 0.062        | 0.051  | 1                | 07/18/2025 17:02 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/17/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** E625  
**Analytical Method:** SW8270E  
**Unit:** µg/L

### Semi-Volatile Organics

| Client ID                       | Lab ID        | Matrix | Date Collected      | Instrument      | Batch ID             |
|---------------------------------|---------------|--------|---------------------|-----------------|----------------------|
| SB-02-GW                        | 2507A49-002C  | Water  | 07/15/2025 11:50    | GC48 07182514.D | 321597               |
| <u>Analytes</u>                 | <u>Result</u> |        | <u>RL</u> <u>DE</u> |                 | <u>Date Analyzed</u> |
| 2,4-Dimethylphenol              | ND            |        | 1.0   1             |                 | 07/18/2025 17:02     |
| Dimethyl Phthalate              | 0.018         |        | 0.010   1           |                 | 07/18/2025 17:02     |
| 4,6-Dinitro-2-methylphenol      | ND            |        | 5.1   1             |                 | 07/18/2025 17:02     |
| 2,4-Dinitrophenol               | ND            |        | 1.0   1             |                 | 07/18/2025 17:02     |
| 2,4-Dinitrotoluene              | ND            |        | 0.051   1           |                 | 07/18/2025 17:02     |
| 2,6-Dinitrotoluene              | ND            |        | 0.051   1           |                 | 07/18/2025 17:02     |
| Di-n-octyl Phthalate            | ND            |        | 2.6   1             |                 | 07/18/2025 17:02     |
| 1,2-Diphenylhydrazine           | ND            |        | 1.0   1             |                 | 07/18/2025 17:02     |
| Fluoranthene                    | ND            |        | 0.010   1           |                 | 07/18/2025 17:02     |
| Fluorene                        | ND            |        | 0.010   1           |                 | 07/18/2025 17:02     |
| Hexachlorobenzene               | ND            |        | 0.0051   1          |                 | 07/18/2025 17:02     |
| Hexachlorobutadiene             | ND            |        | 0.0051   1          |                 | 07/18/2025 17:02     |
| Hexachlorocyclopentadiene       | ND            |        | 5.1   1             |                 | 07/18/2025 17:02     |
| Hexachloroethane                | ND            |        | 0.010   1           |                 | 07/18/2025 17:02     |
| Indeno (1,2,3-cd) pyrene        | ND            |        | 0.010   1           |                 | 07/18/2025 17:02     |
| Isophorone                      | ND            |        | 1.0   1             |                 | 07/18/2025 17:02     |
| 1-Methylnaphthalene             | ND            |        | 0.0051   1          |                 | 07/18/2025 17:02     |
| 2-Methylnaphthalene             | ND            |        | 0.0051   1          |                 | 07/18/2025 17:02     |
| 2-Methylphenol (o-Cresol)       | ND            |        | 1.0   1             |                 | 07/18/2025 17:02     |
| 3 & 4-Methylphenol (m,p-Cresol) | ND            |        | 1.0   1             |                 | 07/18/2025 17:02     |
| Naphthalene                     | ND            |        | 0.010   1           |                 | 07/18/2025 17:02     |
| 2-Nitroaniline                  | ND            |        | 5.1   1             |                 | 07/18/2025 17:02     |
| 3-Nitroaniline                  | ND            |        | 5.1   1             |                 | 07/18/2025 17:02     |
| 4-Nitroaniline                  | ND            |        | 5.1   1             |                 | 07/18/2025 17:02     |
| Nitrobenzene                    | ND            |        | 1.0   1             |                 | 07/18/2025 17:02     |
| 2-Nitrophenol                   | ND            |        | 5.1   1             |                 | 07/18/2025 17:02     |
| 4-Nitrophenol                   | ND            |        | 5.1   1             |                 | 07/18/2025 17:02     |
| N-Nitrosodiphenylamine          | ND            |        | 1.0   1             |                 | 07/18/2025 17:02     |
| N-Nitrosodi-n-propylamine       | ND            |        | 1.0   1             |                 | 07/18/2025 17:02     |
| Pentachlorophenol               | ND            |        | 0.26   1            |                 | 07/18/2025 17:02     |
| Phenanthrene                    | ND            |        | 0.0051   1          |                 | 07/18/2025 17:02     |
| Phenol                          | ND            |        | 0.041   1           |                 | 07/18/2025 17:02     |
| Pyrene                          | ND            |        | 0.0051   1          |                 | 07/18/2025 17:02     |
| Pyridine                        | ND            |        | 1.0   1             |                 | 07/18/2025 17:02     |
| 1,2,4-Trichlorobenzene          | ND            |        | 1.0   1             |                 | 07/18/2025 17:02     |
| 2,4,5-Trichlorophenol           | ND            |        | 0.010   1           |                 | 07/18/2025 17:02     |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/17/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** E625  
**Analytical Method:** SW8270E  
**Unit:** µg/L

### Semi-Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-02-GW  | 2507A49-002C | Water  | 07/15/2025 11:50 | GC48 07182514.D | 321597   |

| Analytes                  | Result | RL    | DE | Date Analyzed    |
|---------------------------|--------|-------|----|------------------|
| 2,4,6-Trichlorophenol     | ND     | 0.010 | 1  | 07/18/2025 17:02 |
| N-Nitrosodimethylamine    | ND     | 1.0   | 1  | 07/18/2025 17:02 |
| 2,3,4,6-Tetrachlorophenol | ND     | 1.0   | 1  | 07/18/2025 17:02 |

| Surrogates           | REC (%) | Limits | DE | Date Analyzed    |
|----------------------|---------|--------|----|------------------|
| 2-Fluorophenol       | 41      | 30-130 | 1  | 07/18/2025 17:02 |
| Phenol-d5            | 29      | 20-130 | 1  | 07/18/2025 17:02 |
| Nitrobenzene-d5      | 72      | 60-130 | 1  | 07/18/2025 17:02 |
| 2-Fluorobiphenyl     | 74      | 50-130 | 1  | 07/18/2025 17:02 |
| 2,4,6-Tribromophenol | 88      | 60-140 | 1  | 07/18/2025 17:02 |
| 4-Terphenyl-d14      | 74      | 40-130 | 1  | 07/18/2025 17:02 |

**Analyst(s):** LAT

**Analytical Comments:** b1



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/17/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** E625  
**Analytical Method:** SW8270E  
**Unit:** µg/L

### Semi-Volatile Organics

| Client ID                     | Lab ID        | Matrix | Date Collected      | Instrument      | Batch ID             |
|-------------------------------|---------------|--------|---------------------|-----------------|----------------------|
| SB-03-GW                      | 2507A49-003C  | Water  | 07/15/2025 15:54    | GC48 07182515.D | 321597               |
| <u>Analytes</u>               | <u>Result</u> |        | <u>RL</u> <u>DE</u> |                 | <u>Date Analyzed</u> |
| Acenaphthene                  | ND            |        | 0.0049 1            |                 | 07/18/2025 17:29     |
| Acenaphthylene                | ND            |        | 0.0049 1            |                 | 07/18/2025 17:29     |
| Acetochlor                    | ND            |        | 0.98 1              |                 | 07/18/2025 17:29     |
| Anthracene                    | ND            |        | 0.0049 1            |                 | 07/18/2025 17:29     |
| Benzidine                     | ND            |        | 4.9 1               |                 | 07/18/2025 17:29     |
| Benzo (a) anthracene          | ND            |        | 0.049 1             |                 | 07/18/2025 17:29     |
| Benzo (a) pyrene              | ND            |        | 0.0049 1            |                 | 07/18/2025 17:29     |
| Benzo (b) fluoranthene        | ND            |        | 0.0098 1            |                 | 07/18/2025 17:29     |
| Benzo (g,h,i) perylene        | ND            |        | 0.0098 1            |                 | 07/18/2025 17:29     |
| Benzo (k) fluoranthene        | ND            |        | 0.0098 1            |                 | 07/18/2025 17:29     |
| Benzoic Acid                  | ND            |        | 4.9 1               |                 | 07/18/2025 17:29     |
| Benzyl Alcohol                | ND            |        | 4.9 1               |                 | 07/18/2025 17:29     |
| 1,1-Biphenyl                  | ND            |        | 0.020 1             |                 | 07/18/2025 17:29     |
| Bis (2-chloroethoxy) Methane  | ND            |        | 0.98 1              |                 | 07/18/2025 17:29     |
| Bis (2-chloroethyl) Ether     | ND            |        | 0.0049 1            |                 | 07/18/2025 17:29     |
| Bis (2-chloroisopropyl) Ether | ND            |        | 0.0098 1            |                 | 07/18/2025 17:29     |
| Bis (2-ethylhexyl) Adipate    | ND            |        | 0.98 1              |                 | 07/18/2025 17:29     |
| Bis (2-ethylhexyl) Phthalate  | ND            |        | 0.24 1              |                 | 07/18/2025 17:29     |
| 4-Bromophenyl Phenyl Ether    | ND            |        | 0.98 1              |                 | 07/18/2025 17:29     |
| Butylbenzyl Phthalate         | ND            |        | 0.24 1              |                 | 07/18/2025 17:29     |
| 4-Chloroaniline               | ND            |        | 0.0049 1            |                 | 07/18/2025 17:29     |
| 4-Chloro-3-methylphenol       | ND            |        | 0.98 1              |                 | 07/18/2025 17:29     |
| 2-Chloronaphthalene           | ND            |        | 0.98 1              |                 | 07/18/2025 17:29     |
| 2-Chlorophenol                | ND            |        | 0.049 1             |                 | 07/18/2025 17:29     |
| 4-Chlorophenyl Phenyl Ether   | ND            |        | 0.98 1              |                 | 07/18/2025 17:29     |
| Chrysene                      | ND            |        | 0.0049 1            |                 | 07/18/2025 17:29     |
| Dibenzo (a,h) anthracene      | ND            |        | 0.0098 1            |                 | 07/18/2025 17:29     |
| Dibenzofuran                  | ND            |        | 0.0049 1            |                 | 07/18/2025 17:29     |
| Di-n-butyl Phthalate          | ND            |        | 0.24 1              |                 | 07/18/2025 17:29     |
| 1,2-Dichlorobenzene           | ND            |        | 0.98 1              |                 | 07/18/2025 17:29     |
| 1,3-Dichlorobenzene           | ND            |        | 0.98 1              |                 | 07/18/2025 17:29     |
| 1,4-Dichlorobenzene           | ND            |        | 0.98 1              |                 | 07/18/2025 17:29     |
| 3,3-Dichlorobenzidine         | ND            |        | 0.0098 1            |                 | 07/18/2025 17:29     |
| 2,4-Dichlorophenol            | ND            |        | 0.0098 1            |                 | 07/18/2025 17:29     |
| 2,6-Dichlorophenol            | ND            |        | 0.049 1             |                 | 07/18/2025 17:29     |
| Diethyl Phthalate             | 0.050         |        | 0.049 1             |                 | 07/18/2025 17:29     |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/17/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** E625  
**Analytical Method:** SW8270E  
**Unit:** µg/L

### Semi-Volatile Organics

| Client ID                       | Lab ID       | Matrix | Date Collected   |                  | Instrument      | Batch ID |
|---------------------------------|--------------|--------|------------------|------------------|-----------------|----------|
| SB-03-GW                        | 2507A49-003C | Water  | 07/15/2025 15:54 |                  | GC48 07182515.D | 321597   |
| Analytes                        | Result       | RL     | DE               | Date Analyzed    |                 |          |
| 2,4-Dimethylphenol              | ND           | 0.98   | 1                | 07/18/2025 17:29 |                 |          |
| Dimethyl Phthalate              | ND           | 0.0098 | 1                | 07/18/2025 17:29 |                 |          |
| 4,6-Dinitro-2-methylphenol      | ND           | 4.9    | 1                | 07/18/2025 17:29 |                 |          |
| 2,4-Dinitrophenol               | ND           | 0.98   | 1                | 07/18/2025 17:29 |                 |          |
| 2,4-Dinitrotoluene              | ND           | 0.049  | 1                | 07/18/2025 17:29 |                 |          |
| 2,6-Dinitrotoluene              | ND           | 0.049  | 1                | 07/18/2025 17:29 |                 |          |
| Di-n-octyl Phthalate            | ND           | 2.4    | 1                | 07/18/2025 17:29 |                 |          |
| 1,2-Diphenylhydrazine           | ND           | 0.98   | 1                | 07/18/2025 17:29 |                 |          |
| Fluoranthene                    | ND           | 0.0098 | 1                | 07/18/2025 17:29 |                 |          |
| Fluorene                        | ND           | 0.0098 | 1                | 07/18/2025 17:29 |                 |          |
| Hexachlorobenzene               | ND           | 0.0049 | 1                | 07/18/2025 17:29 |                 |          |
| Hexachlorobutadiene             | ND           | 0.0049 | 1                | 07/18/2025 17:29 |                 |          |
| Hexachlorocyclopentadiene       | ND           | 4.9    | 1                | 07/18/2025 17:29 |                 |          |
| Hexachloroethane                | ND           | 0.0098 | 1                | 07/18/2025 17:29 |                 |          |
| Indeno (1,2,3-cd) pyrene        | ND           | 0.0098 | 1                | 07/18/2025 17:29 |                 |          |
| Isophorone                      | ND           | 0.98   | 1                | 07/18/2025 17:29 |                 |          |
| 1-Methylnaphthalene             | ND           | 0.0049 | 1                | 07/18/2025 17:29 |                 |          |
| 2-Methylnaphthalene             | ND           | 0.0049 | 1                | 07/18/2025 17:29 |                 |          |
| 2-Methylphenol (o-Cresol)       | ND           | 0.98   | 1                | 07/18/2025 17:29 |                 |          |
| 3 & 4-Methylphenol (m,p-Cresol) | ND           | 0.98   | 1                | 07/18/2025 17:29 |                 |          |
| Naphthalene                     | ND           | 0.0098 | 1                | 07/18/2025 17:29 |                 |          |
| 2-Nitroaniline                  | ND           | 4.9    | 1                | 07/18/2025 17:29 |                 |          |
| 3-Nitroaniline                  | ND           | 4.9    | 1                | 07/18/2025 17:29 |                 |          |
| 4-Nitroaniline                  | ND           | 4.9    | 1                | 07/18/2025 17:29 |                 |          |
| Nitrobenzene                    | ND           | 0.98   | 1                | 07/18/2025 17:29 |                 |          |
| 2-Nitrophenol                   | ND           | 4.9    | 1                | 07/18/2025 17:29 |                 |          |
| 4-Nitrophenol                   | ND           | 4.9    | 1                | 07/18/2025 17:29 |                 |          |
| N-Nitrosodiphenylamine          | ND           | 0.98   | 1                | 07/18/2025 17:29 |                 |          |
| N-Nitrosodi-n-propylamine       | ND           | 0.98   | 1                | 07/18/2025 17:29 |                 |          |
| Pentachlorophenol               | ND           | 0.24   | 1                | 07/18/2025 17:29 |                 |          |
| Phenanthrene                    | ND           | 0.0049 | 1                | 07/18/2025 17:29 |                 |          |
| Phenol                          | ND           | 0.039  | 1                | 07/18/2025 17:29 |                 |          |
| Pyrene                          | ND           | 0.0049 | 1                | 07/18/2025 17:29 |                 |          |
| Pyridine                        | ND           | 0.98   | 1                | 07/18/2025 17:29 |                 |          |
| 1,2,4-Trichlorobenzene          | ND           | 0.98   | 1                | 07/18/2025 17:29 |                 |          |
| 2,4,5-Trichlorophenol           | ND           | 0.0098 | 1                | 07/18/2025 17:29 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/17/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** E625  
**Analytical Method:** SW8270E  
**Unit:** µg/L

### Semi-Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-03-GW  | 2507A49-003C | Water  | 07/15/2025 15:54 | GC48 07182515.D | 321597   |

| Analytes                  | Result | RL     | DE | Date Analyzed    |
|---------------------------|--------|--------|----|------------------|
| 2,4,6-Trichlorophenol     | ND     | 0.0098 | 1  | 07/18/2025 17:29 |
| N-Nitrosodimethylamine    | ND     | 0.98   | 1  | 07/18/2025 17:29 |
| 2,3,4,6-Tetrachlorophenol | ND     | 0.98   | 1  | 07/18/2025 17:29 |

| Surrogates           | REC (%) | Qualifiers | Limits | DE | Date Analyzed    |
|----------------------|---------|------------|--------|----|------------------|
| 2-Fluorophenol       | 26      | S          | 30-130 | 1  | 07/18/2025 17:29 |
| Phenol-d5            | 17      | S          | 20-130 | 1  | 07/18/2025 17:29 |
| Nitrobenzene-d5      | 65      |            | 60-130 | 1  | 07/18/2025 17:29 |
| 2-Fluorobiphenyl     | 71      |            | 50-130 | 1  | 07/18/2025 17:29 |
| 2,4,6-Tribromophenol | 69      |            | 60-140 | 1  | 07/18/2025 17:29 |
| 4-Terphenyl-d14      | 69      |            | 40-130 | 1  | 07/18/2025 17:29 |

Analyst(s): LAT

Analytical Comments: c2,b1



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/17/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** E625  
**Analytical Method:** SW8270E  
**Unit:** µg/L

### Semi-Volatile Organics

| Client ID                     | Lab ID        | Matrix | Date Collected      | Instrument      | Batch ID             |
|-------------------------------|---------------|--------|---------------------|-----------------|----------------------|
| SB-04-GW                      | 2507A49-004C  | Water  | 07/16/2025 11:11    | GC47 07212510.D | 321597               |
| <u>Analytes</u>               | <u>Result</u> |        | <u>RL</u> <u>DE</u> |                 | <u>Date Analyzed</u> |
| Acenaphthene                  | ND            |        | 0.0048 1            |                 | 07/21/2025 13:08     |
| Acenaphthylene                | ND            |        | 0.0048 1            |                 | 07/21/2025 13:08     |
| Acetochlor                    | ND            |        | 0.97 1              |                 | 07/21/2025 13:08     |
| Anthracene                    | ND            |        | 0.0048 1            |                 | 07/21/2025 13:08     |
| Benzidine                     | ND            |        | 4.8 1               |                 | 07/21/2025 13:08     |
| Benzo (a) anthracene          | ND            |        | 0.048 1             |                 | 07/21/2025 13:08     |
| Benzo (a) pyrene              | ND            |        | 0.0048 1            |                 | 07/21/2025 13:08     |
| Benzo (b) fluoranthene        | ND            |        | 0.0097 1            |                 | 07/21/2025 13:08     |
| Benzo (g,h,i) perylene        | ND            |        | 0.0097 1            |                 | 07/21/2025 13:08     |
| Benzo (k) fluoranthene        | ND            |        | 0.0097 1            |                 | 07/21/2025 13:08     |
| Benzoic Acid                  | ND            |        | 4.8 1               |                 | 07/21/2025 13:08     |
| Benzyl Alcohol                | ND            |        | 4.8 1               |                 | 07/21/2025 13:08     |
| 1,1-Biphenyl                  | ND            |        | 0.019 1             |                 | 07/21/2025 13:08     |
| Bis (2-chloroethoxy) Methane  | ND            |        | 0.97 1              |                 | 07/21/2025 13:08     |
| Bis (2-chloroethyl) Ether     | ND            |        | 0.0048 1            |                 | 07/21/2025 13:08     |
| Bis (2-chloroisopropyl) Ether | ND            |        | 0.0097 1            |                 | 07/21/2025 13:08     |
| Bis (2-ethylhexyl) Adipate    | ND            |        | 0.97 1              |                 | 07/21/2025 13:08     |
| Bis (2-ethylhexyl) Phthalate  | ND            |        | 0.24 1              |                 | 07/21/2025 13:08     |
| 4-Bromophenyl Phenyl Ether    | ND            |        | 0.97 1              |                 | 07/21/2025 13:08     |
| Butylbenzyl Phthalate         | ND            |        | 0.24 1              |                 | 07/21/2025 13:08     |
| 4-Chloroaniline               | ND            |        | 0.0048 1            |                 | 07/21/2025 13:08     |
| 4-Chloro-3-methylphenol       | ND            |        | 0.97 1              |                 | 07/21/2025 13:08     |
| 2-Chloronaphthalene           | ND            |        | 0.97 1              |                 | 07/21/2025 13:08     |
| 2-Chlorophenol                | ND            |        | 0.048 1             |                 | 07/21/2025 13:08     |
| 4-Chlorophenyl Phenyl Ether   | ND            |        | 0.97 1              |                 | 07/21/2025 13:08     |
| Chrysene                      | ND            |        | 0.0048 1            |                 | 07/21/2025 13:08     |
| Dibenzo (a,h) anthracene      | ND            |        | 0.0097 1            |                 | 07/21/2025 13:08     |
| Dibenzofuran                  | ND            |        | 0.0048 1            |                 | 07/21/2025 13:08     |
| Di-n-butyl Phthalate          | ND            |        | 0.24 1              |                 | 07/21/2025 13:08     |
| 1,2-Dichlorobenzene           | ND            |        | 0.97 1              |                 | 07/21/2025 13:08     |
| 1,3-Dichlorobenzene           | ND            |        | 0.97 1              |                 | 07/21/2025 13:08     |
| 1,4-Dichlorobenzene           | ND            |        | 0.97 1              |                 | 07/21/2025 13:08     |
| 3,3-Dichlorobenzidine         | ND            |        | 0.0097 1            |                 | 07/21/2025 13:08     |
| 2,4-Dichlorophenol            | ND            |        | 0.0097 1            |                 | 07/21/2025 13:08     |
| 2,6-Dichlorophenol            | ND            |        | 0.048 1             |                 | 07/21/2025 13:08     |
| Diethyl Phthalate             | ND            |        | 0.048 1             |                 | 07/21/2025 13:08     |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/17/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** E625  
**Analytical Method:** SW8270E  
**Unit:** µg/L

### Semi-Volatile Organics

| Client ID                       | Lab ID       | Matrix | Date Collected   |                  | Instrument      | Batch ID |
|---------------------------------|--------------|--------|------------------|------------------|-----------------|----------|
| SB-04-GW                        | 2507A49-004C | Water  | 07/16/2025 11:11 |                  | GC47 07212510.D | 321597   |
| Analytes                        | Result       | RL     | DE               | Date Analyzed    |                 |          |
| 2,4-Dimethylphenol              | ND           | 0.97   | 1                | 07/21/2025 13:08 |                 |          |
| Dimethyl Phthalate              | ND           | 0.0097 | 1                | 07/21/2025 13:08 |                 |          |
| 4,6-Dinitro-2-methylphenol      | ND           | 4.8    | 1                | 07/21/2025 13:08 |                 |          |
| 2,4-Dinitrophenol               | ND           | 0.97   | 1                | 07/21/2025 13:08 |                 |          |
| 2,4-Dinitrotoluene              | ND           | 0.048  | 1                | 07/21/2025 13:08 |                 |          |
| 2,6-Dinitrotoluene              | ND           | 0.048  | 1                | 07/21/2025 13:08 |                 |          |
| Di-n-octyl Phthalate            | ND           | 2.4    | 1                | 07/21/2025 13:08 |                 |          |
| 1,2-Diphenylhydrazine           | ND           | 0.97   | 1                | 07/21/2025 13:08 |                 |          |
| Fluoranthene                    | ND           | 0.0097 | 1                | 07/21/2025 13:08 |                 |          |
| Fluorene                        | ND           | 0.0097 | 1                | 07/21/2025 13:08 |                 |          |
| Hexachlorobenzene               | ND           | 0.0048 | 1                | 07/21/2025 13:08 |                 |          |
| Hexachlorobutadiene             | ND           | 0.0048 | 1                | 07/21/2025 13:08 |                 |          |
| Hexachlorocyclopentadiene       | ND           | 4.8    | 1                | 07/21/2025 13:08 |                 |          |
| Hexachloroethane                | ND           | 0.0097 | 1                | 07/21/2025 13:08 |                 |          |
| Indeno (1,2,3-cd) pyrene        | ND           | 0.0097 | 1                | 07/21/2025 13:08 |                 |          |
| Isophorone                      | ND           | 0.97   | 1                | 07/21/2025 13:08 |                 |          |
| 1-Methylnaphthalene             | ND           | 0.0048 | 1                | 07/21/2025 13:08 |                 |          |
| 2-Methylnaphthalene             | ND           | 0.0048 | 1                | 07/21/2025 13:08 |                 |          |
| 2-Methylphenol (o-Cresol)       | ND           | 0.97   | 1                | 07/21/2025 13:08 |                 |          |
| 3 & 4-Methylphenol (m,p-Cresol) | ND           | 0.97   | 1                | 07/21/2025 13:08 |                 |          |
| Naphthalene                     | ND           | 0.0097 | 1                | 07/21/2025 13:08 |                 |          |
| 2-Nitroaniline                  | ND           | 4.8    | 1                | 07/21/2025 13:08 |                 |          |
| 3-Nitroaniline                  | ND           | 4.8    | 1                | 07/21/2025 13:08 |                 |          |
| 4-Nitroaniline                  | ND           | 4.8    | 1                | 07/21/2025 13:08 |                 |          |
| Nitrobenzene                    | ND           | 0.97   | 1                | 07/21/2025 13:08 |                 |          |
| 2-Nitrophenol                   | ND           | 4.8    | 1                | 07/21/2025 13:08 |                 |          |
| 4-Nitrophenol                   | ND           | 4.8    | 1                | 07/21/2025 13:08 |                 |          |
| N-Nitrosodiphenylamine          | ND           | 0.97   | 1                | 07/21/2025 13:08 |                 |          |
| N-Nitrosodi-n-propylamine       | ND           | 0.97   | 1                | 07/21/2025 13:08 |                 |          |
| Pentachlorophenol               | ND           | 0.24   | 1                | 07/21/2025 13:08 |                 |          |
| Phenanthrene                    | ND           | 0.0048 | 1                | 07/21/2025 13:08 |                 |          |
| Phenol                          | ND           | 0.039  | 1                | 07/21/2025 13:08 |                 |          |
| Pyrene                          | ND           | 0.0048 | 1                | 07/21/2025 13:08 |                 |          |
| Pyridine                        | ND           | 0.97   | 1                | 07/21/2025 13:08 |                 |          |
| 1,2,4-Trichlorobenzene          | ND           | 0.97   | 1                | 07/21/2025 13:08 |                 |          |
| 2,4,5-Trichlorophenol           | ND           | 0.0097 | 1                | 07/21/2025 13:08 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/17/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** E625  
**Analytical Method:** SW8270E  
**Unit:** µg/L

### Semi-Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-04-GW  | 2507A49-004C | Water  | 07/16/2025 11:11 | GC47 07212510.D | 321597   |

| Analytes                  | Result | RL     | DE | Date Analyzed    |
|---------------------------|--------|--------|----|------------------|
| 2,4,6-Trichlorophenol     | ND     | 0.0097 | 1  | 07/21/2025 13:08 |
| N-Nitrosodimethylamine    | ND     | 0.97   | 1  | 07/21/2025 13:08 |
| 2,3,4,6-Tetrachlorophenol | ND     | 0.97   | 1  | 07/21/2025 13:08 |

| Surrogates           | REC (%) | Qualifiers | Limits | DE | Date Analyzed    |
|----------------------|---------|------------|--------|----|------------------|
| 2-Fluorophenol       | 26      | S          | 30-130 | 1  | 07/21/2025 13:08 |
| Phenol-d5            | 17      | S          | 20-130 | 1  | 07/21/2025 13:08 |
| Nitrobenzene-d5      | 66      |            | 60-130 | 1  | 07/21/2025 13:08 |
| 2-Fluorobiphenyl     | 65      |            | 50-130 | 1  | 07/21/2025 13:08 |
| 2,4,6-Tribromophenol | 46      | S          | 60-140 | 1  | 07/21/2025 13:08 |
| 4-Terphenyl-d14      | 57      |            | 40-130 | 1  | 07/21/2025 13:08 |

Analyst(s): LAT

Analytical Comments: c2,b1



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/17/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** E625  
**Analytical Method:** SW8270E  
**Unit:** µg/L

### Semi-Volatile Organics

| Client ID                     | Lab ID       | Matrix | Date Collected   |                  | Instrument      | Batch ID |
|-------------------------------|--------------|--------|------------------|------------------|-----------------|----------|
| SB-05-GW                      | 2507A49-005C | Water  | 07/16/2025 09:36 |                  | GC47 07212511.D | 321597   |
| Analytes                      | Result       | RL     | DE               | Date Analyzed    |                 |          |
| Acenaphthene                  | ND           | 0.0048 | 1                | 07/21/2025 13:36 |                 |          |
| Acenaphthylene                | ND           | 0.0048 | 1                | 07/21/2025 13:36 |                 |          |
| Acetochlor                    | ND           | 0.97   | 1                | 07/21/2025 13:36 |                 |          |
| Anthracene                    | ND           | 0.0048 | 1                | 07/21/2025 13:36 |                 |          |
| Benzidine                     | ND           | 4.8    | 1                | 07/21/2025 13:36 |                 |          |
| Benzo (a) anthracene          | ND           | 0.048  | 1                | 07/21/2025 13:36 |                 |          |
| Benzo (a) pyrene              | ND           | 0.0048 | 1                | 07/21/2025 13:36 |                 |          |
| Benzo (b) fluoranthene        | ND           | 0.0097 | 1                | 07/21/2025 13:36 |                 |          |
| Benzo (g,h,i) perylene        | ND           | 0.0097 | 1                | 07/21/2025 13:36 |                 |          |
| Benzo (k) fluoranthene        | ND           | 0.0097 | 1                | 07/21/2025 13:36 |                 |          |
| Benzoic Acid                  | ND           | 4.8    | 1                | 07/21/2025 13:36 |                 |          |
| Benzyl Alcohol                | ND           | 4.8    | 1                | 07/21/2025 13:36 |                 |          |
| 1,1-Biphenyl                  | ND           | 0.019  | 1                | 07/21/2025 13:36 |                 |          |
| Bis (2-chloroethoxy) Methane  | ND           | 0.97   | 1                | 07/21/2025 13:36 |                 |          |
| Bis (2-chloroethyl) Ether     | ND           | 0.0048 | 1                | 07/21/2025 13:36 |                 |          |
| Bis (2-chloroisopropyl) Ether | ND           | 0.0097 | 1                | 07/21/2025 13:36 |                 |          |
| Bis (2-ethylhexyl) Adipate    | ND           | 0.97   | 1                | 07/21/2025 13:36 |                 |          |
| Bis (2-ethylhexyl) Phthalate  | ND           | 0.24   | 1                | 07/21/2025 13:36 |                 |          |
| 4-Bromophenyl Phenyl Ether    | ND           | 0.97   | 1                | 07/21/2025 13:36 |                 |          |
| Butylbenzyl Phthalate         | ND           | 0.24   | 1                | 07/21/2025 13:36 |                 |          |
| 4-Chloroaniline               | ND           | 0.0048 | 1                | 07/21/2025 13:36 |                 |          |
| 4-Chloro-3-methylphenol       | ND           | 0.97   | 1                | 07/21/2025 13:36 |                 |          |
| 2-Chloronaphthalene           | ND           | 0.97   | 1                | 07/21/2025 13:36 |                 |          |
| 2-Chlorophenol                | ND           | 0.048  | 1                | 07/21/2025 13:36 |                 |          |
| 4-Chlorophenyl Phenyl Ether   | ND           | 0.97   | 1                | 07/21/2025 13:36 |                 |          |
| Chrysene                      | ND           | 0.0048 | 1                | 07/21/2025 13:36 |                 |          |
| Dibenzo (a,h) anthracene      | ND           | 0.0097 | 1                | 07/21/2025 13:36 |                 |          |
| Dibenzofuran                  | ND           | 0.0048 | 1                | 07/21/2025 13:36 |                 |          |
| Di-n-butyl Phthalate          | 0.49         | 0.24   | 1                | 07/21/2025 13:36 |                 |          |
| 1,2-Dichlorobenzene           | ND           | 0.97   | 1                | 07/21/2025 13:36 |                 |          |
| 1,3-Dichlorobenzene           | ND           | 0.97   | 1                | 07/21/2025 13:36 |                 |          |
| 1,4-Dichlorobenzene           | ND           | 0.97   | 1                | 07/21/2025 13:36 |                 |          |
| 3,3-Dichlorobenzidine         | ND           | 0.0097 | 1                | 07/21/2025 13:36 |                 |          |
| 2,4-Dichlorophenol            | ND           | 0.0097 | 1                | 07/21/2025 13:36 |                 |          |
| 2,6-Dichlorophenol            | ND           | 0.048  | 1                | 07/21/2025 13:36 |                 |          |
| Diethyl Phthalate             | 0.37         | 0.048  | 1                | 07/21/2025 13:36 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/17/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** E625  
**Analytical Method:** SW8270E  
**Unit:** µg/L

### Semi-Volatile Organics

| Client ID                       | Lab ID       | Matrix | Date Collected   |                  | Instrument      | Batch ID |
|---------------------------------|--------------|--------|------------------|------------------|-----------------|----------|
| SB-05-GW                        | 2507A49-005C | Water  | 07/16/2025 09:36 |                  | GC47 07212511.D | 321597   |
| Analytes                        | Result       | RL     | DE               | Date Analyzed    |                 |          |
| 2,4-Dimethylphenol              | ND           | 0.97   | 1                | 07/21/2025 13:36 |                 |          |
| Dimethyl Phthalate              | 0.018        | 0.0097 | 1                | 07/21/2025 13:36 |                 |          |
| 4,6-Dinitro-2-methylphenol      | ND           | 4.8    | 1                | 07/21/2025 13:36 |                 |          |
| 2,4-Dinitrophenol               | ND           | 0.97   | 1                | 07/21/2025 13:36 |                 |          |
| 2,4-Dinitrotoluene              | ND           | 0.048  | 1                | 07/21/2025 13:36 |                 |          |
| 2,6-Dinitrotoluene              | ND           | 0.048  | 1                | 07/21/2025 13:36 |                 |          |
| Di-n-octyl Phthalate            | ND           | 2.4    | 1                | 07/21/2025 13:36 |                 |          |
| 1,2-Diphenylhydrazine           | ND           | 0.97   | 1                | 07/21/2025 13:36 |                 |          |
| Fluoranthene                    | ND           | 0.0097 | 1                | 07/21/2025 13:36 |                 |          |
| Fluorene                        | ND           | 0.0097 | 1                | 07/21/2025 13:36 |                 |          |
| Hexachlorobenzene               | ND           | 0.0048 | 1                | 07/21/2025 13:36 |                 |          |
| Hexachlorobutadiene             | ND           | 0.0048 | 1                | 07/21/2025 13:36 |                 |          |
| Hexachlorocyclopentadiene       | ND           | 4.8    | 1                | 07/21/2025 13:36 |                 |          |
| Hexachloroethane                | ND           | 0.0097 | 1                | 07/21/2025 13:36 |                 |          |
| Indeno (1,2,3-cd) pyrene        | ND           | 0.0097 | 1                | 07/21/2025 13:36 |                 |          |
| Isophorone                      | ND           | 0.97   | 1                | 07/21/2025 13:36 |                 |          |
| 1-Methylnaphthalene             | ND           | 0.0048 | 1                | 07/21/2025 13:36 |                 |          |
| 2-Methylnaphthalene             | ND           | 0.0048 | 1                | 07/21/2025 13:36 |                 |          |
| 2-Methylphenol (o-Cresol)       | ND           | 0.97   | 1                | 07/21/2025 13:36 |                 |          |
| 3 & 4-Methylphenol (m,p-Cresol) | ND           | 0.97   | 1                | 07/21/2025 13:36 |                 |          |
| Naphthalene                     | ND           | 0.0097 | 1                | 07/21/2025 13:36 |                 |          |
| 2-Nitroaniline                  | ND           | 4.8    | 1                | 07/21/2025 13:36 |                 |          |
| 3-Nitroaniline                  | ND           | 4.8    | 1                | 07/21/2025 13:36 |                 |          |
| 4-Nitroaniline                  | ND           | 4.8    | 1                | 07/21/2025 13:36 |                 |          |
| Nitrobenzene                    | ND           | 0.97   | 1                | 07/21/2025 13:36 |                 |          |
| 2-Nitrophenol                   | ND           | 4.8    | 1                | 07/21/2025 13:36 |                 |          |
| 4-Nitrophenol                   | ND           | 4.8    | 1                | 07/21/2025 13:36 |                 |          |
| N-Nitrosodiphenylamine          | ND           | 0.97   | 1                | 07/21/2025 13:36 |                 |          |
| N-Nitrosodi-n-propylamine       | ND           | 0.97   | 1                | 07/21/2025 13:36 |                 |          |
| Pentachlorophenol               | ND           | 0.24   | 1                | 07/21/2025 13:36 |                 |          |
| Phenanthrene                    | ND           | 0.0048 | 1                | 07/21/2025 13:36 |                 |          |
| Phenol                          | ND           | 0.039  | 1                | 07/21/2025 13:36 |                 |          |
| Pyrene                          | ND           | 0.0048 | 1                | 07/21/2025 13:36 |                 |          |
| Pyridine                        | ND           | 0.97   | 1                | 07/21/2025 13:36 |                 |          |
| 1,2,4-Trichlorobenzene          | ND           | 0.97   | 1                | 07/21/2025 13:36 |                 |          |
| 2,4,5-Trichlorophenol           | ND           | 0.0097 | 1                | 07/21/2025 13:36 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/17/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** E625  
**Analytical Method:** SW8270E  
**Unit:** µg/L

### Semi-Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-05-GW  | 2507A49-005C | Water  | 07/16/2025 09:36 | GC47 07212511.D | 321597   |

| Analytes                  | Result | RL     | DE | Date Analyzed    |
|---------------------------|--------|--------|----|------------------|
| 2,4,6-Trichlorophenol     | ND     | 0.0097 | 1  | 07/21/2025 13:36 |
| N-Nitrosodimethylamine    | ND     | 0.97   | 1  | 07/21/2025 13:36 |
| 2,3,4,6-Tetrachlorophenol | ND     | 0.97   | 1  | 07/21/2025 13:36 |

| Surrogates           | REC (%) | Qualifiers | Limits | DE | Date Analyzed    |
|----------------------|---------|------------|--------|----|------------------|
| 2-Fluorophenol       | 29      | S          | 30-130 | 1  | 07/21/2025 13:36 |
| Phenol-d5            | 21      |            | 20-130 | 1  | 07/21/2025 13:36 |
| Nitrobenzene-d5      | 59      | S          | 60-130 | 1  | 07/21/2025 13:36 |
| 2-Fluorobiphenyl     | 56      |            | 50-130 | 1  | 07/21/2025 13:36 |
| 2,4,6-Tribromophenol | 53      | S          | 60-140 | 1  | 07/21/2025 13:36 |
| 4-Terphenyl-d14      | 54      |            | 40-130 | 1  | 07/21/2025 13:36 |

**Analyst(s):** LAT

**Analytical Comments:** c2,b1





## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** E200.8  
**Analytical Method:** E200.8  
**Unit:** µg/L

### Metals (>1% Sediment Content)

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument        | Batch ID |
|-----------|--------------|--------|------------------|-------------------|----------|
| SB-01-GW  | 2507A49-001E | Water  | 07/15/2025 13:35 | ICP-MS4 100SMPL.d | 321723   |

| Analytes   | Result | RL  | DE | Date Analyzed    |
|------------|--------|-----|----|------------------|
| Antimony   | ND     | 2.5 | 1  | 07/21/2025 14:09 |
| Arsenic    | 41     | 2.5 | 1  | 07/21/2025 14:09 |
| Barium     | 1300   | 25  | 1  | 07/21/2025 14:09 |
| Beryllium  | 2.8    | 2.5 | 1  | 07/21/2025 14:09 |
| Cadmium    | ND     | 2.5 | 1  | 07/21/2025 14:09 |
| Chromium   | 200    | 2.5 | 1  | 07/21/2025 14:09 |
| Cobalt     | 45     | 2.5 | 1  | 07/21/2025 14:09 |
| Copper     | 140    | 2.5 | 1  | 07/21/2025 14:09 |
| Lead       | 33     | 2.5 | 1  | 07/21/2025 14:09 |
| Molybdenum | 9.7    | 2.5 | 1  | 07/21/2025 14:09 |
| Nickel     | 280    | 2.5 | 1  | 07/21/2025 14:09 |
| Selenium   | 7.5    | 2.5 | 1  | 07/21/2025 14:09 |
| Silver     | ND     | 2.5 | 1  | 07/21/2025 14:09 |
| Thallium   | ND     | 2.5 | 1  | 07/21/2025 14:09 |
| Vanadium   | 190    | 2.5 | 1  | 07/21/2025 14:09 |
| Zinc       | 310    | 25  | 1  | 07/21/2025 14:09 |

| Surrogates | REC (%) | Limits | DE | Date Analyzed    |
|------------|---------|--------|----|------------------|
| Terbium    | 106     | 70-130 | 1  | 07/21/2025 14:09 |

Analyst(s): MIG

Analytical Comments: b1



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** E200.8  
**Analytical Method:** E200.8  
**Unit:** µg/L

### Metals (>1% Sediment Content)

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument        | Batch ID |
|-----------|--------------|--------|------------------|-------------------|----------|
| SB-02-GW  | 2507A49-002E | Water  | 07/15/2025 11:50 | ICP-MS4 101SMPL.d | 321723   |

| Analytes   | Result | RL  | DE | Date Analyzed    |
|------------|--------|-----|----|------------------|
| Antimony   | ND     | 2.5 | 1  | 07/21/2025 14:13 |
| Arsenic    | 26     | 2.5 | 1  | 07/21/2025 14:13 |
| Barium     | 500    | 25  | 1  | 07/21/2025 14:13 |
| Beryllium  | ND     | 2.5 | 1  | 07/21/2025 14:13 |
| Cadmium    | ND     | 2.5 | 1  | 07/21/2025 14:13 |
| Chromium   | 210    | 2.5 | 1  | 07/21/2025 14:13 |
| Cobalt     | 61     | 2.5 | 1  | 07/21/2025 14:13 |
| Copper     | 90     | 2.5 | 1  | 07/21/2025 14:13 |
| Lead       | 15     | 2.5 | 1  | 07/21/2025 14:13 |
| Molybdenum | 5.7    | 2.5 | 1  | 07/21/2025 14:13 |
| Nickel     | 300    | 2.5 | 1  | 07/21/2025 14:13 |
| Selenium   | 13     | 2.5 | 1  | 07/21/2025 14:13 |
| Silver     | ND     | 2.5 | 1  | 07/21/2025 14:13 |
| Thallium   | ND     | 2.5 | 1  | 07/21/2025 14:13 |
| Vanadium   | 160    | 2.5 | 1  | 07/21/2025 14:13 |
| Zinc       | 170    | 25  | 1  | 07/21/2025 14:13 |

| Surrogates | REC (%) | Limits | DE | Date Analyzed    |
|------------|---------|--------|----|------------------|
| Terbium    | 104     | 70-130 | 1  | 07/21/2025 14:13 |

Analyst(s): MIG

Analytical Comments: b1



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** E200.8  
**Analytical Method:** E200.8  
**Unit:** µg/L

### Metals (>1% Sediment Content)

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument        | Batch ID |
|-----------|--------------|--------|------------------|-------------------|----------|
| SB-03-GW  | 2507A49-003E | Water  | 07/15/2025 15:54 | ICP-MS4 102SMPL.d | 321723   |

| Analytes   | Result | RL  | DE | Date Analyzed    |
|------------|--------|-----|----|------------------|
| Antimony   | ND     | 2.5 | 1  | 07/21/2025 14:17 |
| Arsenic    | 55     | 2.5 | 1  | 07/21/2025 14:17 |
| Barium     | 1200   | 25  | 1  | 07/21/2025 14:17 |
| Beryllium  | 3.0    | 2.5 | 1  | 07/21/2025 14:17 |
| Cadmium    | ND     | 2.5 | 1  | 07/21/2025 14:17 |
| Chromium   | 170    | 2.5 | 1  | 07/21/2025 14:17 |
| Cobalt     | 59     | 2.5 | 1  | 07/21/2025 14:17 |
| Copper     | 130    | 2.5 | 1  | 07/21/2025 14:17 |
| Lead       | 40     | 2.5 | 1  | 07/21/2025 14:17 |
| Molybdenum | 11     | 2.5 | 1  | 07/21/2025 14:17 |
| Nickel     | 250    | 2.5 | 1  | 07/21/2025 14:17 |
| Selenium   | 9.1    | 2.5 | 1  | 07/21/2025 14:17 |
| Silver     | ND     | 2.5 | 1  | 07/21/2025 14:17 |
| Thallium   | ND     | 2.5 | 1  | 07/21/2025 14:17 |
| Vanadium   | 180    | 2.5 | 1  | 07/21/2025 14:17 |
| Zinc       | 330    | 25  | 1  | 07/21/2025 14:17 |

| Surrogates | REC (%) | Limits | DE | Date Analyzed    |
|------------|---------|--------|----|------------------|
| Terbium    | 102     | 70-130 | 1  | 07/21/2025 14:17 |

Analyst(s): MIG

Analytical Comments: b1



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** E200.8  
**Analytical Method:** E200.8  
**Unit:** µg/L

### Metals (>1% Sediment Content)

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument        | Batch ID |
|-----------|--------------|--------|------------------|-------------------|----------|
| SB-04-GW  | 2507A49-004E | Water  | 07/16/2025 11:11 | ICP-MS4 103SMPL.d | 321723   |

| Analytes   | Result | Qualifiers | RL  | DE | Date Analyzed    |
|------------|--------|------------|-----|----|------------------|
| Antimony   | ND     |            | 2.5 | 1  | 07/21/2025 14:21 |
| Arsenic    | 29     |            | 2.5 | 1  | 07/21/2025 14:21 |
| Barium     | 260    |            | 25  | 1  | 07/21/2025 14:21 |
| Beryllium  | ND     |            | 2.5 | 1  | 07/21/2025 14:21 |
| Cadmium    | ND     |            | 2.5 | 1  | 07/21/2025 14:21 |
| Chromium   | 78     |            | 2.5 | 1  | 07/21/2025 14:21 |
| Cobalt     | 19     |            | 2.5 | 1  | 07/21/2025 14:21 |
| Copper     | 41     |            | 2.5 | 1  | 07/21/2025 14:21 |
| Lead       | 20     |            | 2.5 | 1  | 07/21/2025 14:21 |
| Molybdenum | 4.9    |            | 2.5 | 1  | 07/21/2025 14:21 |
| Nickel     | 88     |            | 2.5 | 1  | 07/21/2025 14:21 |
| Selenium   | 12     |            | 2.5 | 1  | 07/21/2025 14:21 |
| Silver     | ND     |            | 2.5 | 1  | 07/21/2025 14:21 |
| Thallium   | ND     |            | 2.5 | 1  | 07/21/2025 14:21 |
| Vanadium   | 61     |            | 2.5 | 1  | 07/21/2025 14:21 |
| Zinc       | 74     | B          | 25  | 1  | 07/21/2025 14:21 |

| Surrogates | REC (%) | Limits | DE |                  |
|------------|---------|--------|----|------------------|
| Terbium    | 105     | 70-130 | 1  | 07/21/2025 14:21 |

Analyst(s): MIG

Analytical Comments: b1



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** E200.8  
**Analytical Method:** E200.8  
**Unit:** µg/L

### Metals (>1% Sediment Content)

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument        | Batch ID |
|-----------|--------------|--------|------------------|-------------------|----------|
| SB-05-GW  | 2507A49-005E | Water  | 07/16/2025 09:36 | ICP-MS4 104SMPL.d | 321723   |

| Analytes   | Result | RL  | DE | Date Analyzed    |
|------------|--------|-----|----|------------------|
| Antimony   | ND     | 2.5 | 1  | 07/21/2025 14:25 |
| Arsenic    | 19     | 2.5 | 1  | 07/21/2025 14:25 |
| Barium     | 850    | 25  | 1  | 07/21/2025 14:25 |
| Beryllium  | 2.6    | 2.5 | 1  | 07/21/2025 14:25 |
| Cadmium    | ND     | 2.5 | 1  | 07/21/2025 14:25 |
| Chromium   | 270    | 2.5 | 1  | 07/21/2025 14:25 |
| Cobalt     | 53     | 2.5 | 1  | 07/21/2025 14:25 |
| Copper     | 150    | 2.5 | 1  | 07/21/2025 14:25 |
| Lead       | 70     | 2.5 | 1  | 07/21/2025 14:25 |
| Molybdenum | 9.2    | 2.5 | 1  | 07/21/2025 14:25 |
| Nickel     | 350    | 2.5 | 1  | 07/21/2025 14:25 |
| Selenium   | 15     | 2.5 | 1  | 07/21/2025 14:25 |
| Silver     | ND     | 2.5 | 1  | 07/21/2025 14:25 |
| Thallium   | ND     | 2.5 | 1  | 07/21/2025 14:25 |
| Vanadium   | 240    | 2.5 | 1  | 07/21/2025 14:25 |
| Zinc       | 280    | 25  | 1  | 07/21/2025 14:25 |

| Surrogates | REC (%) | Limits | DE | Date Analyzed    |
|------------|---------|--------|----|------------------|
| Terbium    | 101     | 70-130 | 1  | 07/21/2025 14:25 |

Analyst(s): MIG

Analytical Comments: b1



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** E245.2  
**Analytical Method:** E245.2  
**Unit:** µg/L

### Mercury by Cold Vapor Atomic Absorption

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| SB-01-GW  | 2507A49-001E | Water  | 07/15/2025 13:35 | AA1 _36    | 321813   |

|                 |               |           |           |                      |
|-----------------|---------------|-----------|-----------|----------------------|
| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>DE</u> | <u>Date Analyzed</u> |
| Mercury         | 2.0           | 0.20      | 1         | 07/22/2025 12:47     |

Analyst(s): MJA

Analytical Comments: b1

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| SB-02-GW  | 2507A49-002E | Water  | 07/15/2025 11:50 | AA1 _37    | 321813   |

|                 |               |           |           |                      |
|-----------------|---------------|-----------|-----------|----------------------|
| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>DE</u> | <u>Date Analyzed</u> |
| Mercury         | 0.39          | 0.20      | 1         | 07/22/2025 12:50     |

Analyst(s): MJA

Analytical Comments: b1

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| SB-03-GW  | 2507A49-003E | Water  | 07/15/2025 15:54 | AA1 _38    | 321813   |

|                 |               |           |           |                      |
|-----------------|---------------|-----------|-----------|----------------------|
| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>DE</u> | <u>Date Analyzed</u> |
| Mercury         | 1.8           | 0.20      | 1         | 07/22/2025 12:53     |

Analyst(s): MJA

Analytical Comments: b1



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** E245.2  
**Analytical Method:** E245.2  
**Unit:** µg/L

### Mercury by Cold Vapor Atomic Absorption

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| SB-04-GW  | 2507A49-004E | Water  | 07/16/2025 11:11 | AA1 _39    | 321813   |

|                 |               |           |           |                      |
|-----------------|---------------|-----------|-----------|----------------------|
| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>DE</u> | <u>Date Analyzed</u> |
| Mercury         | 2.4           | 0.20      | 1         | 07/22/2025 12:56     |

Analyst(s): MJA

Analytical Comments: b1

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| SB-05-GW  | 2507A49-005E | Water  | 07/16/2025 09:36 | AA1 _40    | 321813   |

|                 |               |           |           |                      |
|-----------------|---------------|-----------|-----------|----------------------|
| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>DE</u> | <u>Date Analyzed</u> |
| Mercury         | 2.7           | 0.20      | 1         | 07/22/2025 12:59     |

Analyst(s): MJA

Analytical Comments: b1





## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/17/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** SW3510 C  
**Analytical Method:** SW8015 B  
**Unit:** µg/L

### Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument       | Batch ID |
|-----------|--------------|--------|------------------|------------------|----------|
| SB-01-GW  | 2507A49-001D | Water  | 07/15/2025 13:35 | GC11B 07192583.D | 321601   |

| Analytes                | Result | RL  | DE | Date Analyzed    |
|-------------------------|--------|-----|----|------------------|
| TPH-Diesel (C10-C23)    | ND     | 100 | 1  | 07/20/2025 14:36 |
| TPH-Motor Oil (C18-C36) | ND     | 500 | 1  | 07/20/2025 14:36 |

| Surrogates | REC (%) | Limits | DE | Date Analyzed    |
|------------|---------|--------|----|------------------|
| C9         | 87      | 60-138 | 1  | 07/20/2025 14:36 |

**Analyst(s):** JNG

**Analytical Comments:** b1

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-02-GW  | 2507A49-002D | Water  | 07/15/2025 11:50 | GC6A 07192542.D | 321601   |

| Analytes                | Result | RL  | DE | Date Analyzed    |
|-------------------------|--------|-----|----|------------------|
| TPH-Diesel (C10-C23)    | ND     | 100 | 1  | 07/20/2025 01:33 |
| TPH-Motor Oil (C18-C36) | ND     | 500 | 1  | 07/20/2025 01:33 |

| Surrogates | REC (%) | Limits | DE | Date Analyzed    |
|------------|---------|--------|----|------------------|
| C9         | 86      | 60-138 | 1  | 07/20/2025 01:33 |

**Analyst(s):** DGA

**Analytical Comments:** b1

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-03-GW  | 2507A49-003D | Water  | 07/15/2025 15:54 | GC6A 07192544.D | 321601   |

| Analytes                | Result | RL  | DE | Date Analyzed    |
|-------------------------|--------|-----|----|------------------|
| TPH-Diesel (C10-C23)    | ND     | 100 | 1  | 07/20/2025 02:12 |
| TPH-Motor Oil (C18-C36) | ND     | 500 | 1  | 07/20/2025 02:12 |

| Surrogates | REC (%) | Limits | DE | Date Analyzed    |
|------------|---------|--------|----|------------------|
| C9         | 98      | 60-138 | 1  | 07/20/2025 02:12 |

**Analyst(s):** DGA

**Analytical Comments:** b1

(Cont.)



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/17/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** SW3510 C  
**Analytical Method:** SW8015 B  
**Unit:** µg/L

### Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-04-GW  | 2507A49-004D | Water  | 07/16/2025 11:11 | GC6A 07192548.D | 321601   |

| Analytes                | Result | RL  | DE | Date Analyzed    |
|-------------------------|--------|-----|----|------------------|
| TPH-Diesel (C10-C23)    | ND     | 100 | 1  | 07/20/2025 03:31 |
| TPH-Motor Oil (C18-C36) | ND     | 500 | 1  | 07/20/2025 03:31 |

| Surrogates | REC (%) | Limits | DE | Date Analyzed    |
|------------|---------|--------|----|------------------|
| C9         | 108     | 60-138 | 1  | 07/20/2025 03:31 |

**Analyst(s):** DGA

**Analytical Comments:** b1

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument       | Batch ID |
|-----------|--------------|--------|------------------|------------------|----------|
| SB-05-GW  | 2507A49-005D | Water  | 07/16/2025 09:36 | GC11B 07192579.D | 321601   |

| Analytes                | Result | RL  | DE | Date Analyzed    |
|-------------------------|--------|-----|----|------------------|
| TPH-Diesel (C10-C23)    | ND     | 100 | 1  | 07/20/2025 13:19 |
| TPH-Motor Oil (C18-C36) | ND     | 500 | 1  | 07/20/2025 13:19 |

| Surrogates | REC (%) | Limits | DE | Date Analyzed    |
|------------|---------|--------|----|------------------|
| C9         | 104     | 60-138 | 1  | 07/20/2025 13:19 |

**Analyst(s):** JNG

**Analytical Comments:** b1



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** SW5030 B  
**Analytical Method:** SW8015 B  
**Unit:** µg/L

### Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline

| Client ID             | Lab ID                         | Matrix | Date Collected   | Instrument      | Batch ID             |
|-----------------------|--------------------------------|--------|------------------|-----------------|----------------------|
| SB-01-GW              | 2507A49-001D                   | Water  | 07/15/2025 13:35 | GC57 07182525.D | 321802               |
| <u>Analytes</u>       | <u>Result</u>                  |        | <u>RL</u>        | <u>DF</u>       | <u>Date Analyzed</u> |
| TPH(g) (C6-C12)       | ND                             |        | 50               | 1               | 07/18/2025 20:54     |
| <u>Surrogates</u>     | <u>REC (%)</u>                 |        | <u>Limits</u>    | <u>DF</u>       |                      |
| aaa-TFT               | 112                            |        | 60-140           | 1               | 07/18/2025 20:54     |
| <u>Analyst(s):</u> IA | <u>Analytical Comments:</u> b1 |        |                  |                 |                      |

| Client ID             | Lab ID                         | Matrix | Date Collected   | Instrument      | Batch ID             |
|-----------------------|--------------------------------|--------|------------------|-----------------|----------------------|
| SB-02-GW              | 2507A49-002D                   | Water  | 07/15/2025 11:50 | GC57 07182526.D | 321802               |
| <u>Analytes</u>       | <u>Result</u>                  |        | <u>RL</u>        | <u>DF</u>       | <u>Date Analyzed</u> |
| TPH(g) (C6-C12)       | ND                             |        | 50               | 1               | 07/18/2025 21:26     |
| <u>Surrogates</u>     | <u>REC (%)</u>                 |        | <u>Limits</u>    | <u>DF</u>       |                      |
| aaa-TFT               | 111                            |        | 60-140           | 1               | 07/18/2025 21:26     |
| <u>Analyst(s):</u> IA | <u>Analytical Comments:</u> b1 |        |                  |                 |                      |

| Client ID             | Lab ID                         | Matrix | Date Collected   | Instrument      | Batch ID             |
|-----------------------|--------------------------------|--------|------------------|-----------------|----------------------|
| SB-03-GW              | 2507A49-003D                   | Water  | 07/15/2025 15:54 | GC57 07182527.D | 321802               |
| <u>Analytes</u>       | <u>Result</u>                  |        | <u>RL</u>        | <u>DF</u>       | <u>Date Analyzed</u> |
| TPH(g) (C6-C12)       | ND                             |        | 50               | 1               | 07/18/2025 21:59     |
| <u>Surrogates</u>     | <u>REC (%)</u>                 |        | <u>Limits</u>    | <u>DF</u>       |                      |
| aaa-TFT               | 113                            |        | 60-140           | 1               | 07/18/2025 21:59     |
| <u>Analyst(s):</u> IA | <u>Analytical Comments:</u> b1 |        |                  |                 |                      |

(Cont.)



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**Extraction Method:** SW5030 B  
**Analytical Method:** SW8015 B  
**Unit:** µg/L

### Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline

| Client ID             | Lab ID         | Matrix | Date Collected                 |           | Instrument           | Batch ID |
|-----------------------|----------------|--------|--------------------------------|-----------|----------------------|----------|
| SB-04-GW              | 2507A49-004D   | Water  | 07/16/2025 11:11               |           | GC57 07182528.D      | 321802   |
| <u>Analytes</u>       | <u>Result</u>  |        | <u>RL</u>                      | <u>DE</u> | <u>Date Analyzed</u> |          |
| TPH(g) (C6-C12)       | ND             |        | 50                             | 1         | 07/18/2025 22:31     |          |
| <u>Surrogates</u>     | <u>REC (%)</u> |        | <u>Limits</u>                  | <u>DE</u> |                      |          |
| aaa-TFT               | 109            |        | 60-140                         | 1         | 07/18/2025 22:31     |          |
| <u>Analyst(s):</u> IA |                |        | <u>Analytical Comments:</u> b1 |           |                      |          |

| Client ID             | Lab ID         | Matrix | Date Collected                 |           | Instrument           | Batch ID |
|-----------------------|----------------|--------|--------------------------------|-----------|----------------------|----------|
| SB-05-GW              | 2507A49-005D   | Water  | 07/16/2025 09:36               |           | GC57 07182529.D      | 321802   |
| <u>Analytes</u>       | <u>Result</u>  |        | <u>RL</u>                      | <u>DF</u> | <u>Date Analyzed</u> |          |
| TPH(g) (C6-C12)       | ND             |        | 50                             | 1         | 07/18/2025 23:03     |          |
| <u>Surrogates</u>     | <u>REC (%)</u> |        | <u>Limits</u>                  | <u>DF</u> |                      |          |
| aaa-TFT               | 110            |        | 60-140                         | 1         | 07/18/2025 23:03     |          |
| <u>Analyst(s):</u> IA |                |        | <u>Analytical Comments:</u> b1 |           |                      |          |



## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/18/2025  
**Date Analyzed:** 07/19/2025 - 07/21/2025  
**Instrument:** LC-MS4  
**Matrix:** Water  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**BatchID:** 321705  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/L  
**Sample ID:** MB/LCS/LCSD-321705  
LCS2-321705

### QC Summary Report for E1633 Draft 3

| Analyte     | MB Result | MDL  | RL  | SPK Val | MB IS/SS %REC | MB IS/SS Limits |
|-------------|-----------|------|-----|---------|---------------|-----------------|
| 9CIPF3ONS   | ND        | 0.38 | 2.0 | -       | -             | -               |
| 11CIPF3OUdS | ND        | 0.25 | 2.0 | -       | -             | -               |
| 3:3 FTCA    | ND        | 0.61 | 2.0 | -       | -             | -               |
| 4:2 FTS     | ND        | 0.83 | 2.0 | -       | -             | -               |
| 5:3 FTCA    | ND        | 0.46 | 2.0 | -       | -             | -               |
| 6:2 FTS     | ND        | 0.44 | 2.0 | -       | -             | -               |
| 7:3 FTCA    | ND        | 0.43 | 2.0 | -       | -             | -               |
| 8:2 FTS     | ND        | 1.0  | 2.0 | -       | -             | -               |
| 10:2 FTS    | ND        | 0.60 | 1.9 | -       | -             | -               |
| ADONA       | ND        | 0.46 | 2.0 | -       | -             | -               |
| EtFOSA      | ND        | 0.85 | 2.0 | -       | -             | -               |
| EtFOSE      | ND        | 0.58 | 2.0 | -       | -             | -               |
| HFPO-DA     | ND        | 1.0  | 2.0 | -       | -             | -               |
| MeFOSA      | ND        | 0.93 | 2.0 | -       | -             | -               |
| MeFOSE      | ND        | 0.59 | 2.0 | -       | -             | -               |
| NEtFOSAA    | ND        | 0.77 | 2.0 | -       | -             | -               |
| NFDHA       | ND        | 0.35 | 2.0 | -       | -             | -               |
| NMeFOSAA    | ND        | 0.49 | 2.0 | -       | -             | -               |
| PFBA        | ND        | 0.34 | 2.0 | -       | -             | -               |
| PFBS        | ND        | 0.57 | 2.0 | -       | -             | -               |
| PFDA        | ND        | 0.52 | 2.0 | -       | -             | -               |
| PFDoA       | ND        | 0.37 | 2.0 | -       | -             | -               |
| PFDoS       | ND        | 0.59 | 2.0 | -       | -             | -               |
| PFDS        | ND        | 0.50 | 2.0 | -       | -             | -               |
| PFEESA      | ND        | 0.29 | 2.0 | -       | -             | -               |
| PFHpA       | ND        | 0.45 | 2.0 | -       | -             | -               |
| PFHpS       | ND        | 0.28 | 2.0 | -       | -             | -               |
| PFHxA       | ND        | 0.46 | 2.0 | -       | -             | -               |
| PFHxDA      | ND        | 0.52 | 2.0 | -       | -             | -               |
| PFHxS       | ND        | 0.57 | 2.0 | -       | -             | -               |
| PFMBA       | ND        | 0.40 | 2.0 | -       | -             | -               |
| PFMPA       | ND        | 0.42 | 2.0 | -       | -             | -               |
| PFNA        | ND        | 0.59 | 2.0 | -       | -             | -               |
| PFNS        | ND        | 0.30 | 2.0 | -       | -             | -               |
| PFOA        | ND        | 0.56 | 2.0 | -       | -             | -               |
| PFODA       | ND        | 1.7  | 2.0 | -       | -             | -               |
| PFOS        | ND        | 0.68 | 2.0 | -       | -             | -               |
| PFOSA       | ND        | 0.76 | 2.0 | -       | -             | -               |

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/18/2025  
**Date Analyzed:** 07/19/2025 - 07/21/2025  
**Instrument:** LC-MS4  
**Matrix:** Water  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**BatchID:** 321705  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/L  
**Sample ID:** MB/LCS/LCSD-321705  
LCSD-321705

### QC Summary Report for E1633 Draft 3

| Analyte                   | MB Result | MDL  | RL  | SPK Val | MB IS/SS %REC | MB IS/SS Limits |
|---------------------------|-----------|------|-----|---------|---------------|-----------------|
| PFPeA                     | ND        | 0.83 | 2.0 | -       | -             | -               |
| PFPeS                     | ND        | 0.25 | 2.0 | -       | -             | -               |
| PFTeDA                    | ND        | 0.47 | 2.0 | -       | -             | -               |
| PFTrDA                    | ND        | 0.96 | 2.0 | -       | -             | -               |
| PFUnA                     | ND        | 0.53 | 2.0 | -       | -             | -               |
| <b>Surrogate Recovery</b> |           |      |     |         |               |                 |
| 13C2-4:2 FTS              | 50        |      |     | 46.9    | 108           | 40-200          |
| 13C2-6:2 FTS              | 53        |      |     | 47.55   | 111           | 40-200          |
| 13C2-8:2 FTS              | 55        |      |     | 48      | 114           | 40-300          |
| 13C2-PFDoA                | 13        |      |     | 12.5    | 104           | 20-130          |
| 13C2-PFTeDA               | 11        |      |     | 12.5    | 88            | 20-130          |
| 13C3-HFPO-DA              | 110       |      |     | 100     | 110           | 40-130          |
| 13C3-PFBS                 | 28        |      |     | 23.3    | 119           | 40-135          |
| 13C3-PFHxS                | 26        |      |     | 23.7    | 111           | 40-130          |
| 13C4-PFBA                 | 110       |      |     | 100     | 114           | 20-130          |
| 13C4-PFHpA                | 28        |      |     | 25      | 113           | 40-130          |
| 13C5-PFHxA                | 28        |      |     | 25      | 111           | 40-130          |
| 13C5-PFPeA                | 57        |      |     | 50      | 115           | 40-130          |
| 13C6-PFDA                 | 15        |      |     | 12.5    | 121           | 40-130          |
| 13C7-PFUdA                | 13        |      |     | 12.5    | 107           | 30-130          |
| 13C8-PFOA                 | 28        |      |     | 25      | 112           | 40-130          |
| 13C8-PFOS                 | 28        |      |     | 23.95   | 116           | 40-130          |
| 13C8-PFOSA                | 30        |      |     | 25      | 122           | 40-130          |
| 13C9-PFNA                 | 14        |      |     | 12.5    | 114           | 40-130          |
| d3-MeFOSAA                | 59        |      |     | 50      | 118           | 40-170          |
| d5-EtFOSAA                | 55        |      |     | 50      | 109           | 25-135          |
| 13C2-PFHxDA               | 43        |      |     | 50      | 87            | 20-150          |
| d3-MeFOSA                 | 21        |      |     | 25      | 85            | 20-130          |
| d5-EtFOSA                 | 22        |      |     | 25      | 87            | 20-130          |
| d7N-MeFOSE1               | 250       |      |     | 250     | 99            | 20-130          |
| d9N-EtFOSE1               | 250       |      |     | 250     | 99            | 20-130          |
| 13C2-10:2 FTS             | 92        |      |     | 96.6    | 96            | 20-150          |

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/18/2025  
**Date Analyzed:** 07/19/2025 - 07/21/2025  
**Instrument:** LC-MS4  
**Matrix:** Water  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**BatchID:** 321705  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/L  
**Sample ID:** MB/LCS/LCSD-321705  
LCS2-321705

### QC Summary Report for E1633 Draft 3

| Analyte     | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD    | RPD Limit |
|-------------|------------|-------------|---------|----------|-----------|-----------------|--------|-----------|
| 9CIPF3ONS   | 21         | 20          | 20      | 103      | 101       | 70-155          | 1.79   | 30        |
| 11CIPF3OUdS | 19         | 19          | 20      | 97       | 97        | 55-160          | 0.400  | 30        |
| 3:3 FTCA    | 21         | 22          | 20      | 106      | 112       | 65-130          | 5.60   | 30        |
| 4:2 FTS     | 20         | 22          | 20      | 100      | 108       | 70-145          | 7.46   | 30        |
| 5:3 FTCA    | 21         | 21          | 20      | 103      | 103       | 70-135          | 0.0589 | 30        |
| 6:2 FTS     | 21         | 20          | 20      | 103      | 102       | 65-155          | 1.52   | 30        |
| 7:3 FTCA    | 19         | 20          | 20      | 96       | 100       | 50-145          | 4.33   | 30        |
| 8:2 FTS     | 19         | 19          | 20      | 96       | 97        | 60-150          | 0.242  | 30        |
| 10:2 FTS    | 19         | 18          | 19.3    | 100      | 92        | 50-150          | 8.15   | 30        |
| ADONA       | 22         | 21          | 20      | 108      | 107       | 65-145          | 1.41   | 30        |
| EtFOSA      | 21         | 21          | 20      | 104      | 104       | 65-145          | 0.0750 | 30        |
| EtFOSE      | 20         | 20          | 20      | 101      | 99        | 70-135          | 1.78   | 30        |
| HFPO-DA     | 21         | 22          | 20      | 103      | 108       | 70-140          | 4.29   | 30        |
| MeFOSA      | 21         | 21          | 20      | 106      | 103       | 60-150          | 2.55   | 30        |
| MeFOSE      | 20         | 20          | 20      | 99       | 100       | 70-145          | 1.10   | 30        |
| NEtFOSAA    | 20         | 21          | 20      | 99       | 104       | 70-145          | 4.70   | 30        |
| NFDHA       | 20         | 21          | 20      | 98       | 104       | 50-150          | 5.38   | 30        |
| NMeFOSAA    | 20         | 20          | 20      | 100      | 101       | 50-140          | 0.224  | 30        |
| PFBA        | 22         | 22          | 20      | 111      | 112       | 70-140          | 0.525  | 30        |
| PFBS        | 18         | 19          | 20      | 91       | 93        | 60-145          | 2.11   | 30        |
| PFDA        | 21         | 21          | 20      | 105      | 106       | 70-140          | 1.13   | 30        |
| PFDoA       | 20         | 20          | 20      | 98       | 99        | 70-140          | 1.69   | 30        |
| PFDoS       | 20         | 18          | 20      | 99       | 92        | 50-150          | 7.85   | 30        |
| PFDS        | 23         | 22          | 20      | 114      | 110       | 60-145          | 3.36   | 30        |
| PFEESA      | 21         | 20          | 20      | 105      | 101       | 70-140          | 3.31   | 30        |
| PFHpA       | 21         | 21          | 20      | 107      | 107       | 70-150          | 0.0294 | 30        |
| PFHpS       | 20         | 20          | 20      | 100      | 98        | 70-150          | 2.00   | 30        |
| PFHxA       | 20         | 21          | 20      | 102      | 106       | 70-145          | 3.61   | 30        |
| PFHxDA      | 18         | 19          | 20      | 89       | 94        | 50-150          | 6.17   | 30        |
| PFHxS       | 19         | 20          | 20      | 97       | 98        | 65-145          | 1.28   | 30        |
| PFMBA       | 21         | 21          | 20      | 105      | 105       | 60-150          | 0.793  | 30        |
| PFMPA       | 21         | 21          | 20      | 105      | 106       | 55-140          | 0.477  | 30        |
| PFNA        | 21         | 21          | 20      | 106      | 103       | 70-150          | 3.22   | 30        |
| PFNS        | 21         | 20          | 20      | 104      | 100       | 65-145          | 3.16   | 30        |
| PFOA        | 21         | 20          | 20      | 104      | 100       | 70-150          | 4.52   | 30        |
| PFODA       | 15         | 16          | 20      | 74       | 82        | 50-150          | 10.6   | 30        |
| PFOS        | 21         | 20          | 20      | 104      | 99        | 55-150          | 4.41   | 30        |
| PFOSA       | 17         | 17          | 20      | 86       | 87        | 70-145          | 1.48   | 30        |

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/18/2025  
**Date Analyzed:** 07/19/2025 - 07/21/2025  
**Instrument:** LC-MS4  
**Matrix:** Water  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**BatchID:** 321705  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/L  
**Sample ID:** MB/LCS/LCSD-321705  
LCS2-321705

### QC Summary Report for E1633 Draft 3

| Analyte | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD  | RPD Limit |
|---------|------------|-------------|---------|----------|-----------|-----------------|------|-----------|
| PFPeA   | 20         | 21          | 20      | 100      | 104       | 65-135          | 4.38 | 30        |
| PFPeS   | 19         | 20          | 20      | 95       | 98        | 65-140          | 3.24 | 30        |
| PFTeDA  | 21         | 20          | 20      | 103      | 102       | 60-140          | 1.44 | 30        |
| PFTrDA  | 23         | 21          | 20      | 115      | 104       | 65-140          | 9.65 | 30        |
| PFUnA   | 21         | 21          | 20      | 106      | 105       | 70-145          | 1.01 | 30        |

#### Surrogate Recovery

|               |     |     |       |     |     |        |   |   |
|---------------|-----|-----|-------|-----|-----|--------|---|---|
| 13C2-4:2 FTS  | 46  | 45  | 46.9  | 98  | 96  | 40-200 | - | - |
| 13C2-6:2 FTS  | 48  | 48  | 47.55 | 100 | 100 | 40-200 | - | - |
| 13C2-8:2 FTS  | 53  | 54  | 48    | 109 | 112 | 40-300 | - | - |
| 13C2-PFDoA    | 14  | 14  | 12.5  | 109 | 112 | 20-130 | - | - |
| 13C2-PFTeDA   | 13  | 15  | 12.5  | 100 | 118 | 20-130 | - | - |
| 13C3-HFPO-DA  | 110 | 110 | 100   | 109 | 115 | 40-130 | - | - |
| 13C3-PFBS     | 26  | 26  | 23.3  | 113 | 113 | 40-135 | - | - |
| 13C3-PFHxS    | 26  | 27  | 23.7  | 111 | 113 | 40-130 | - | - |
| 13C4-PFBA     | 110 | 120 | 100   | 109 | 116 | 20-130 | - | - |
| 13C4-PFHpA    | 28  | 29  | 25    | 112 | 118 | 40-130 | - | - |
| 13C5-PFHxA    | 29  | 30  | 25    | 114 | 118 | 40-130 | - | - |
| 13C5-PFPeA    | 57  | 60  | 50    | 115 | 119 | 40-130 | - | - |
| 13C6-PFDA     | 14  | 15  | 12.5  | 113 | 117 | 40-130 | - | - |
| 13C7-PFUdA    | 14  | 14  | 12.5  | 110 | 111 | 30-130 | - | - |
| 13C8-PFOA     | 29  | 28  | 25    | 116 | 113 | 40-130 | - | - |
| 13C8-PFOS     | 25  | 26  | 23.95 | 104 | 111 | 40-130 | - | - |
| 13C8-PFOA     | 29  | 30  | 25    | 114 | 120 | 40-130 | - | - |
| 13C9-PFNA     | 14  | 15  | 12.5  | 110 | 117 | 40-130 | - | - |
| d3-MeFOSAA    | 56  | 59  | 50    | 112 | 118 | 40-170 | - | - |
| d5-EtFOSAA    | 51  | 57  | 50    | 101 | 113 | 25-135 | - | - |
| 13C2-PFHxDA   | 56  | 53  | 50    | 111 | 105 | 20-150 | - | - |
| d3-MeFOSA     | 21  | 22  | 25    | 83  | 87  | 20-130 | - | - |
| d5-EtFOSA     | 21  | 22  | 25    | 83  | 86  | 20-130 | - | - |
| d7N-MeFOSE1   | 250 | 260 | 250   | 98  | 103 | 20-130 | - | - |
| d9N-EtFOSE1   | 260 | 270 | 250   | 105 | 109 | 20-130 | - | - |
| 13C2-10:2 FTS | 92  | 100 | 96.6  | 95  | 103 | 20-150 | - | - |

| Analyte   | LCS2 Result | SPK Val | LCS2 %REC | LCS2 Limits |
|-----------|-------------|---------|-----------|-------------|
| 9CIPF3ONS | 4.6         | 4       | 116       | 70-155      |

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/18/2025  
**Date Analyzed:** 07/19/2025 - 07/21/2025  
**Instrument:** LC-MS4  
**Matrix:** Water  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**BatchID:** 321705  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/L  
**Sample ID:** MB/LCS/LCSD-321705  
LCS2-321705

### QC Summary Report for E1633 Draft 3

| Analyte     | LCS2 Result | SPK Val | LCS2 %REC | LCS2 Limits |
|-------------|-------------|---------|-----------|-------------|
| 11CIPF3OUdS | 4.3         | 4       | 108       | 55-160      |
| 3:3 FTCA    | 4.2         | 4       | 104       | 65-130      |
| 4:2 FTS     | 4.4         | 4       | 110       | 70-145      |
| 5:3 FTCA    | 4.3         | 4       | 108       | 70-135      |
| 6:2 FTS     | 4.4         | 4       | 111       | 65-155      |
| 7:3 FTCA    | 4.4         | 4       | 109       | 50-145      |
| 8:2 FTS     | 4.5         | 4       | 113       | 60-150      |
| 10:2 FTS    | 3.7         | 3.86    | 97        | 50-150      |
| ADONA       | 4.8         | 4       | 120       | 65-145      |
| EtFOSA      | 4.6         | 4       | 116       | 65-145      |
| EtFOSE      | 4.3         | 4       | 108       | 70-135      |
| HFPO-DA     | 4.9         | 4       | 123       | 70-140      |
| MeFOSA      | 4.6         | 4       | 116       | 60-150      |
| MeFOSE      | 4.3         | 4       | 108       | 70-145      |
| NEtFOSAA    | 4.5         | 4       | 112       | 70-145      |
| NFDHA       | 4.5         | 4       | 114       | 50-150      |
| NMeFOSAA    | 4.6         | 4       | 114       | 50-140      |
| PFBA        | 4.6         | 4       | 114       | 70-140      |
| PFBS        | 4.2         | 4       | 104       | 60-145      |
| PFDA        | 4.4         | 4       | 111       | 70-140      |
| PFDoA       | 4.2         | 4       | 104       | 70-140      |
| PFDoS       | 3.8         | 4       | 96        | 50-150      |
| PFDS        | 4.3         | 4       | 108       | 60-145      |
| PFEESA      | 4.6         | 4       | 114       | 70-140      |
| PFHpA       | 4.3         | 4       | 109       | 70-150      |
| PFHpS       | 4.6         | 4       | 115       | 70-150      |
| PFHxA       | 4.6         | 4       | 116       | 70-145      |
| PFHxDA      | 4.2         | 4       | 104       | 50-150      |
| PFHxS       | 4.3         | 4       | 109       | 65-145      |
| PFMBA       | 4.2         | 4       | 105       | 60-150      |
| PFMPA       | 4.3         | 4       | 107       | 55-140      |
| PFNA        | 4.4         | 4       | 111       | 70-150      |
| PFNS        | 4.3         | 4       | 107       | 65-145      |
| PFOA        | 4.4         | 4       | 110       | 70-150      |
| PFODA       | 3.2         | 4       | 80        | 50-150      |
| PFOS        | 4.4         | 4       | 110       | 55-150      |
| PFOSA       | 3.7         | 4       | 93        | 70-145      |
| PFPeA       | 4.1         | 4       | 104       | 65-135      |

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/18/2025  
**Date Analyzed:** 07/19/2025 - 07/21/2025  
**Instrument:** LC-MS4  
**Matrix:** Water  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**BatchID:** 321705  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/L  
**Sample ID:** MB/LCS/LCSD-321705  
LCS2-321705

### QC Summary Report for E1633 Draft 3

| Analyte                   | LCS2 Result | SPK Val | LCS2 %REC | LCS2 Limits |
|---------------------------|-------------|---------|-----------|-------------|
| PFPeS                     | 4.3         | 4       | 108       | 65-140      |
| PFTeDA                    | 4.2         | 4       | 105       | 60-140      |
| PFTrDA                    | 4.9         | 4       | 122       | 65-140      |
| PFUnA                     | 4.4         | 4       | 111       | 70-145      |
| <b>Surrogate Recovery</b> |             |         |           |             |
| 13C2-4:2 FTS              | 44          | 46.9    | 93        | 40-200      |
| 13C2-6:2 FTS              | 48          | 47.55   | 101       | 40-200      |
| 13C2-8:2 FTS              | 55          | 48      | 114       | 40-300      |
| 13C2-PFDoA                | 14          | 12.5    | 115       | 20-130      |
| 13C2-PFTeDA               | 12          | 12.5    | 96        | 20-130      |
| 13C3-HFPO-DA              | 110         | 100     | 111       | 40-130      |
| 13C3-PFBS                 | 26          | 23.3    | 113       | 40-135      |
| 13C3-PFHxS                | 27          | 23.7    | 114       | 40-130      |
| 13C4-PFBA                 | 110         | 100     | 112       | 20-130      |
| 13C4-PFHpA                | 30          | 25      | 122       | 40-130      |
| 13C5-PFHxA                | 30          | 25      | 119       | 40-130      |
| 13C5-PFPeA                | 62          | 50      | 124       | 40-130      |
| 13C6-PFDA                 | 15          | 12.5    | 121       | 40-130      |
| 13C7-PFUdA                | 14          | 12.5    | 109       | 30-130      |
| 13C8-PFOA                 | 29          | 25      | 118       | 40-130      |
| 13C8-PFOS                 | 26          | 23.95   | 109       | 40-130      |
| 13C8-PFOSA                | 29          | 25      | 117       | 40-130      |
| 13C9-PFNA                 | 14          | 12.5    | 115       | 40-130      |
| d3-MeFOSAA                | 55          | 50      | 110       | 40-170      |
| d5-EtFOSAA                | 49          | 50      | 97        | 25-135      |
| 13C2-PFHxDA               | 46          | 50      | 92        | 20-150      |
| d3-MeFOSA                 | 19          | 25      | 76        | 20-130      |
| d5-EtFOSA                 | 19          | 25      | 77        | 20-130      |
| d7N-MeFOSE1               | 240         | 250     | 94        | 20-130      |
| d9N-EtFOSE1               | 250         | 250     | 98        | 20-130      |
| 13C2-10:2 FTS             | 99          | 96.6    | 103       | 20-150      |



## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/18/2025  
**Date Analyzed:** 07/18/2025  
**Instrument:** GC16  
**Matrix:** Water  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**BatchID:** 321785  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-321785

### QC Summary Report for SW8260D

| Analyte                       | MB Result | MDL    | RL    | SPK Val | MB IS/SS %REC | MB IS/SS Limits |
|-------------------------------|-----------|--------|-------|---------|---------------|-----------------|
| Acetone                       | ND        | 6.7    | 40    | -       | -             | -               |
| tert-Amyl methyl ether (TAME) | ND        | 0.13   | 0.50  | -       | -             | -               |
| Benzene                       | ND        | 0.035  | 0.20  | -       | -             | -               |
| Bromobenzene                  | ND        | 0.11   | 0.50  | -       | -             | -               |
| Bromochloromethane            | ND        | 0.21   | 0.50  | -       | -             | -               |
| Bromodichloromethane          | ND        | 0.035  | 0.050 | -       | -             | -               |
| Bromoform                     | ND        | 0.24   | 0.50  | -       | -             | -               |
| Bromomethane                  | ND        | 0.25   | 0.50  | -       | -             | -               |
| 2-Butanone (MEK)              | ND        | 1.4    | 5.0   | -       | -             | -               |
| t-Butyl alcohol (TBA)         | ND        | 1.5    | 5.0   | -       | -             | -               |
| n-Butyl benzene               | ND        | 0.16   | 0.50  | -       | -             | -               |
| sec-Butyl benzene             | ND        | 0.10   | 0.50  | -       | -             | -               |
| tert-Butyl benzene            | ND        | 0.17   | 0.50  | -       | -             | -               |
| Carbon Disulfide              | ND        | 0.12   | 0.50  | -       | -             | -               |
| Carbon Tetrachloride          | ND        | 0.034  | 0.050 | -       | -             | -               |
| Chlorobenzene                 | ND        | 0.095  | 0.50  | -       | -             | -               |
| Chloroethane                  | ND        | 0.25   | 0.50  | -       | -             | -               |
| Chloroform                    | ND        | 0.043  | 0.10  | -       | -             | -               |
| Chloromethane                 | ND        | 0.16   | 0.50  | -       | -             | -               |
| 2-Chlorotoluene               | ND        | 0.12   | 0.50  | -       | -             | -               |
| 4-Chlorotoluene               | ND        | 0.099  | 0.50  | -       | -             | -               |
| Dibromochloromethane          | ND        | 0.073  | 0.15  | -       | -             | -               |
| 1,2-Dibromo-3-chloropropane   | ND        | 0.0079 | 0.020 | -       | -             | -               |
| 1,2-Dibromoethane (EDB)       | ND        | 0.016  | 0.040 | -       | -             | -               |
| Dibromomethane                | ND        | 0.17   | 0.50  | -       | -             | -               |
| 1,2-Dichlorobenzene           | ND        | 0.10   | 0.50  | -       | -             | -               |
| 1,3-Dichlorobenzene           | ND        | 0.14   | 0.50  | -       | -             | -               |
| 1,4-Dichlorobenzene           | ND        | 0.089  | 0.50  | -       | -             | -               |
| Dichlorodifluoromethane       | ND        | 0.16   | 0.50  | -       | -             | -               |
| 1,1-Dichloroethane            | ND        | 0.14   | 0.50  | -       | -             | -               |
| 1,2-Dichloroethane (1,2-DCA)  | ND        | 0.0093 | 0.020 | -       | -             | -               |
| 1,1-Dichloroethene            | ND        | 0.0058 | 0.010 | -       | -             | -               |
| cis-1,2-Dichloroethene        | ND        | 0.14   | 0.50  | -       | -             | -               |
| trans-1,2-Dichloroethene      | ND        | 0.15   | 0.50  | -       | -             | -               |
| 1,2-Dichloropropane           | ND        | 0.039  | 0.10  | -       | -             | -               |
| 1,3-Dichloropropane           | ND        | 0.16   | 0.50  | -       | -             | -               |
| 2,2-Dichloropropane           | ND        | 0.17   | 0.50  | -       | -             | -               |
| 1,1-Dichloropropene           | ND        | 0.11   | 0.50  | -       | -             | -               |

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/18/2025  
**Date Analyzed:** 07/18/2025  
**Instrument:** GC16  
**Matrix:** Water  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**BatchID:** 321785  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-321785

### QC Summary Report for SW8260D

| Analyte                       | MB Result | MDL    | RL     | SPK Val | MB IS/SS %REC | MB IS/SS Limits |
|-------------------------------|-----------|--------|--------|---------|---------------|-----------------|
| cis-1,3-Dichloropropene       | ND        | 0.13   | 0.50   | -       | -             | -               |
| trans-1,3-Dichloropropene     | ND        | 0.20   | 0.50   | -       | -             | -               |
| Diisopropyl ether (DIPE)      | ND        | 0.16   | 0.50   | -       | -             | -               |
| Ethylbenzene                  | ND        | 0.10   | 0.50   | -       | -             | -               |
| Ethyl tert-butyl ether (ETBE) | ND        | 0.15   | 0.50   | -       | -             | -               |
| Freon 113                     | ND        | 0.15   | 0.50   | -       | -             | -               |
| Hexachlorobutadiene           | ND        | 0.064  | 0.50   | -       | -             | -               |
| Hexachloroethane              | ND        | 0.078  | 0.20   | -       | -             | -               |
| 2-Hexanone                    | ND        | 0.23   | 0.50   | -       | -             | -               |
| Isopropylbenzene              | ND        | 0.10   | 0.50   | -       | -             | -               |
| 4-Isopropyl toluene           | ND        | 0.19   | 0.50   | -       | -             | -               |
| Methyl-t-butyl ether (MTBE)   | ND        | 0.15   | 0.50   | -       | -             | -               |
| Methylene chloride            | ND        | 1.5    | 2.0    | -       | -             | -               |
| 4-Methyl-2-pentanone (MIBK)   | ND        | 0.22   | 0.50   | -       | -             | -               |
| Naphthalene                   | ND        | 0.17   | 0.30   | -       | -             | -               |
| n-Propyl benzene              | ND        | 0.11   | 0.50   | -       | -             | -               |
| Styrene                       | ND        | 0.22   | 2.0    | -       | -             | -               |
| 1,1,1,2-Tetrachloroethane     | ND        | 0.086  | 0.50   | -       | -             | -               |
| 1,1,2,2-Tetrachloroethane     | ND        | 0.015  | 0.020  | -       | -             | -               |
| Tetrachloroethene             | ND        | 0.036  | 0.20   | -       | -             | -               |
| Toluene                       | ND        | 0.10   | 0.50   | -       | -             | -               |
| 1,2,3-Trichlorobenzene        | ND        | 0.17   | 0.50   | -       | -             | -               |
| 1,2,4-Trichlorobenzene        | ND        | 0.13   | 0.50   | -       | -             | -               |
| 1,1,1-Trichloroethane         | ND        | 0.13   | 0.50   | -       | -             | -               |
| 1,1,2-Trichloroethane         | ND        | 0.032  | 0.10   | -       | -             | -               |
| Trichloroethene               | ND        | 0.034  | 0.10   | -       | -             | -               |
| Trichlorofluoromethane        | ND        | 0.14   | 0.50   | -       | -             | -               |
| 1,2,3-Trichloropropane        | ND        | 0.0036 | 0.0050 | -       | -             | -               |
| 1,2,4-Trimethylbenzene        | ND        | 0.10   | 0.50   | -       | -             | -               |
| 1,3,5-Trimethylbenzene        | ND        | 0.096  | 0.50   | -       | -             | -               |
| Vinyl Chloride                | ND        | 0.0044 | 0.0050 | -       | -             | -               |
| m,p-Xylene                    | ND        | 0.22   | 1.0    | -       | -             | -               |
| o-Xylene                      | ND        | 0.12   | 0.50   | -       | -             | -               |

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/18/2025  
**Date Analyzed:** 07/18/2025  
**Instrument:** GC16  
**Matrix:** Water  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**BatchID:** 321785  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-321785

### QC Summary Report for SW8260D

| Analyte                   | MB<br>Result | MDL | RL | SPK<br>Val | MB IS/SS<br>%REC | MB IS/SS<br>Limits |
|---------------------------|--------------|-----|----|------------|------------------|--------------------|
| <b>Surrogate Recovery</b> |              |     |    |            |                  |                    |
| Dibromofluoromethane      | 26           |     |    | 25         | 106              | 70-130             |
| Toluene-d8                | 23           |     |    | 25         | 93               | 70-130             |
| 4-BFB                     | 2.1          |     |    | 2.5        | 86               | 70-130             |



## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/18/2025  
**Date Analyzed:** 07/18/2025  
**Instrument:** GC16  
**Matrix:** Water  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**BatchID:** 321785  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-321785

### QC Summary Report for SW8260D

| Analyte                       | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD    | RPD Limit |
|-------------------------------|------------|-------------|---------|----------|-----------|-----------------|--------|-----------|
| Acetone                       | 40         | 43          | 40      | 101      | 108       | 60-130          | 6.68   | 20        |
| tert-Amyl methyl ether (TAME) | 3.7        | 3.7         | 4       | 93       | 92        | 60-130          | 1.90   | 20        |
| Benzene                       | 4.0        | 4.1         | 4       | 99       | 102       | 65-130          | 3.56   | 20        |
| Bromobenzene                  | 3.9        | 4.0         | 4       | 99       | 101       | 60-130          | 2.36   | 20        |
| Bromochloromethane            | 4.1        | 4.3         | 4       | 102      | 107       | 65-130          | 4.66   | 20        |
| Bromodichloromethane          | 3.8        | 3.9         | 4       | 95       | 99        | 60-130          | 3.96   | 20        |
| Bromoform                     | 3.4        | 3.6         | 4       | 85       | 91        | 70-130          | 7.36   | 20        |
| Bromomethane                  | 4.7        | 4.8         | 4       | 118      | 121       | 50-130          | 2.38   | 20        |
| 2-Butanone (MEK)              | 14         | 16          | 16      | 88       | 99        | 60-130          | 11.6   | 20        |
| t-Butyl alcohol (TBA)         | 13         | 13          | 16      | 82       | 84        | 50-130          | 2.18   | 20        |
| n-Butyl benzene               | 4.1        | 4.2         | 4       | 101      | 106       | 60-130          | 4.42   | 20        |
| sec-Butyl benzene             | 3.9        | 4.1         | 4       | 97       | 103       | 60-130          | 5.39   | 20        |
| tert-Butyl benzene            | 3.6        | 4.0         | 4       | 90       | 99        | 60-130          | 9.58   | 20        |
| Carbon Disulfide              | 4.2        | 4.2         | 4       | 104      | 106       | 60-130          | 1.70   | 20        |
| Carbon Tetrachloride          | 3.9        | 4.1         | 4       | 99       | 102       | 70-130          | 3.15   | 20        |
| Chlorobenzene                 | 4.1        | 4.1         | 4       | 101      | 104       | 65-130          | 2.12   | 20        |
| Chloroethane                  | 4.6        | 4.8         | 4       | 115      | 121       | 60-140          | 5.33   | 20        |
| Chloroform                    | 4.2        | 4.3         | 4       | 104      | 107       | 70-130          | 2.32   | 20        |
| Chloromethane                 | 7.2        | 7.4         | 4       | 179,F2   | 184,F2    | 50-130          | 2.93   | 20        |
| 2-Chlorotoluene               | 3.8        | 4.0         | 4       | 95       | 100       | 60-130          | 5.01   | 20        |
| 4-Chlorotoluene               | 4.0        | 4.0         | 4       | 99       | 99        | 60-130          | 0.0915 | 20        |
| Dibromochloromethane          | 3.6        | 3.8         | 4       | 90       | 94        | 70-130          | 4.58   | 20        |
| 1,2-Dibromo-3-chloropropane   | 1.6        | 1.8         | 2       | 80       | 90        | 50-130          | 11.4   | 20        |
| 1,2-Dibromoethane (EDB)       | 2.0        | 2.1         | 2       | 100      | 105       | 60-130          | 5.33   | 20        |
| Dibromomethane                | 4.0        | 4.1         | 4       | 100      | 104       | 60-130          | 4.00   | 20        |
| 1,2-Dichlorobenzene           | 3.8        | 4.0         | 4       | 94       | 99        | 65-130          | 5.07   | 20        |
| 1,3-Dichlorobenzene           | 3.9        | 4.0         | 4       | 96       | 100       | 70-130          | 3.17   | 20        |
| 1,4-Dichlorobenzene           | 4.0        | 4.2         | 4       | 101      | 105       | 65-130          | 3.43   | 20        |
| Dichlorodifluoromethane       | 4.6        | 5.0         | 4       | 115      | 125       | 40-140          | 8.33   | 20        |
| 1,1-Dichloroethane            | 4.1        | 4.3         | 4       | 103      | 108       | 70-130          | 4.09   | 20        |
| 1,2-Dichloroethane (1,2-DCA)  | 3.7        | 3.9         | 4       | 93       | 97        | 70-130          | 3.77   | 20        |
| 1,1-Dichloroethene            | 4.4        | 4.5         | 4       | 109      | 113       | 60-130          | 3.71   | 20        |
| cis-1,2-Dichloroethene        | 4.2        | 4.3         | 4       | 104      | 107       | 60-130          | 2.92   | 20        |
| trans-1,2-Dichloroethene      | 4.2        | 4.4         | 4       | 106      | 110       | 70-130          | 3.56   | 20        |
| 1,2-Dichloropropane           | 4.1        | 4.2         | 4       | 102      | 105       | 60-130          | 2.65   | 20        |
| 1,3-Dichloropropane           | 4.9        | 5.2         | 4       | 122      | 129       | 60-130          | 5.65   | 20        |
| 2,2-Dichloropropane           | 4.0        | 4.1         | 4       | 100      | 103       | 60-130          | 2.97   | 20        |
| 1,1-Dichloropropene           | 4.1        | 4.3         | 4       | 104      | 107       | 60-130          | 3.60   | 20        |

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/18/2025  
**Date Analyzed:** 07/18/2025  
**Instrument:** GC16  
**Matrix:** Water  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**BatchID:** 321785  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-321785

### QC Summary Report for SW8260D

| Analyte                       | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD   | RPD Limit |
|-------------------------------|------------|-------------|---------|----------|-----------|-----------------|-------|-----------|
| cis-1,3-Dichloropropene       | 3.8        | 3.9         | 4       | 94       | 98        | 60-130          | 3.33  | 20        |
| trans-1,3-Dichloropropene     | 3.5        | 3.7         | 4       | 88       | 93        | 60-130          | 5.79  | 20        |
| Diisopropyl ether (DIPE)      | 3.9        | 4.1         | 4       | 97       | 103       | 60-130          | 5.57  | 20        |
| Ethylbenzene                  | 4.0        | 4.2         | 4       | 100      | 104       | 60-130          | 3.95  | 20        |
| Ethyl tert-butyl ether (ETBE) | 3.4        | 3.7         | 4       | 85       | 92        | 60-130          | 7.93  | 20        |
| Freon 113                     | 4.4        | 4.6         | 4       | 109      | 114       | 60-130          | 4.30  | 20        |
| Hexachlorobutadiene           | 4.4        | 4.8         | 4       | 109      | 120       | 60-130          | 9.17  | 20        |
| Hexachloroethane              | 3.3        | 3.4         | 4       | 82       | 86        | 50-130          | 4.53  | 20        |
| 2-Hexanone                    | 3.2        | 3.5         | 4       | 80       | 89        | 50-130          | 10.1  | 20        |
| Isopropylbenzene              | 4.0        | 3.9         | 4       | 100      | 98        | 60-130          | 2.46  | 20        |
| 4-Isopropyl toluene           | 3.9        | 4.1         | 4       | 97       | 104       | 60-130          | 6.78  | 20        |
| Methyl-t-butyl ether (MTBE)   | 3.2        | 3.6         | 4       | 81       | 89        | 60-130          | 9.40  | 20        |
| Methylene chloride            | 4.9        | 4.8         | 4       | 122      | 121       | 60-130          | 1.39  | 20        |
| 4-Methyl-2-pentanone (MIBK)   | 3.0        | 3.5         | 4       | 75       | 88        | 50-130          | 15.0  | 20        |
| Naphthalene                   | 3.4        | 3.7         | 4       | 85       | 92        | 60-130          | 7.89  | 20        |
| n-Propyl benzene              | 3.8        | 3.8         | 4       | 96       | 95        | 60-130          | 0.412 | 20        |
| Styrene                       | 3.7        | 3.8         | 4       | 93       | 95        | 60-130          | 1.62  | 20        |
| 1,1,1,2-Tetrachloroethane     | 3.6        | 3.8         | 4       | 91       | 94        | 60-130          | 4.08  | 20        |
| 1,1,2,2-Tetrachloroethane     | 3.8        | 4.1         | 4       | 95       | 101       | 60-130          | 6.28  | 20        |
| Tetrachloroethene             | 4.6        | 4.7         | 4       | 114      | 117       | 70-130          | 2.33  | 20        |
| Toluene                       | 4.1        | 4.1         | 4       | 103      | 102       | 70-130          | 0.171 | 20        |
| 1,2,3-Trichlorobenzene        | 3.6        | 4.1         | 4       | 90       | 101       | 60-130          | 12.2  | 20        |
| 1,2,4-Trichlorobenzene        | 3.8        | 4.1         | 4       | 94       | 103       | 60-130          | 9.48  | 20        |
| 1,1,1-Trichloroethane         | 3.9        | 3.9         | 4       | 97       | 98        | 70-130          | 1.38  | 20        |
| 1,1,2-Trichloroethane         | 3.9        | 4.2         | 4       | 99       | 104       | 70-130          | 5.18  | 20        |
| Trichloroethene               | 4.2        | 4.6         | 4       | 106      | 114       | 65-130          | 7.55  | 20        |
| Trichlorofluoromethane        | 4.3        | 4.4         | 4       | 107      | 109       | 60-130          | 2.11  | 20        |
| 1,2,3-Trichloropropane        | 1.7        | 1.8         | 2       | 85       | 92        | 60-130          | 7.26  | 20        |
| 1,2,4-Trimethylbenzene        | 3.8        | 3.9         | 4       | 94       | 97        | 60-130          | 3.37  | 20        |
| 1,3,5-Trimethylbenzene        | 3.8        | 4.0         | 4       | 96       | 100       | 60-130          | 4.07  | 20        |
| Vinyl Chloride                | 3.8        | 3.8         | 2       | 190,F2   | 192,F2    | 60-130          | 1.35  | 20        |
| m,p-Xylene                    | 7.9        | 8.1         | 8       | 99       | 101       | 60-130          | 2.12  | 20        |
| o-Xylene                      | 3.8        | 3.9         | 4       | 94       | 99        | 60-130          | 4.44  | 20        |

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/18/2025  
**Date Analyzed:** 07/18/2025  
**Instrument:** GC16  
**Matrix:** Water  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**BatchID:** 321785  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-321785

### QC Summary Report for SW8260D

| Analyte                   | LCS<br>Result | LCSD<br>Result | SPK<br>Val | LCS<br>%REC | LCSD<br>%REC | LCS/LCSD<br>Limits | RPD   | RPD<br>Limit |
|---------------------------|---------------|----------------|------------|-------------|--------------|--------------------|-------|--------------|
| <b>Surrogate Recovery</b> |               |                |            |             |              |                    |       |              |
| Dibromofluoromethane      | 27            | 27             | 25         | 107         | 107          | 70-130             | 0.315 | 20           |
| Toluene-d8                | 24            | 24             | 25         | 97          | 95           | 70-130             | 1.15  | 20           |
| 4-BFB                     | 2.3           | 2.2            | 2.5        | 92          | 90           | 70-130             | 2.79  | 20           |



## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/17/2025  
**Date Analyzed:** 07/18/2025  
**Instrument:** GC21  
**Matrix:** Water  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**BatchID:** 321597  
**Extraction Method:** E625  
**Analytical Method:** SW8270E  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-321597

### QC Summary Report for SW8270E

| Analyte                       | MB Result | MDL    | RL     | SPK Val | MB IS/SS %REC | MB IS/SS Limits |
|-------------------------------|-----------|--------|--------|---------|---------------|-----------------|
| Acenaphthene                  | ND        | 0.0024 | 0.0050 | -       | -             | -               |
| Acenaphthylene                | ND        | 0.0024 | 0.0050 | -       | -             | -               |
| Anthracene                    | ND        | 0.0019 | 0.0050 | -       | -             | -               |
| Benzidine                     | ND        | 2.7    | 5.0    | -       | -             | -               |
| Benzo (a) anthracene          | ND        | 0.021  | 0.050  | -       | -             | -               |
| Benzo (a) pyrene              | ND        | 0.0047 | 0.0050 | -       | -             | -               |
| Benzo (b) fluoranthene        | ND        | 0.0074 | 0.010  | -       | -             | -               |
| Benzo (g,h,i) perylene        | ND        | 0.0054 | 0.010  | -       | -             | -               |
| Benzo (k) fluoranthene        | ND        | 0.0072 | 0.010  | -       | -             | -               |
| Benzyl Alcohol                | ND        | 1.4    | 5.0    | -       | -             | -               |
| Bis (2-chloroethoxy) methane  | ND        | 0.21   | 1.0    | -       | -             | -               |
| Bis (2-chloroethyl) ether     | ND        | 0.0015 | 0.0050 | -       | -             | -               |
| Bis (2-chloroisopropyl) ether | ND        | 0.0058 | 0.010  | -       | -             | -               |
| Bis (2-ethylhexyl) Adipate    | ND        | 0.28   | 1.0    | -       | -             | -               |
| Bis (2-ethylhexyl) Phthalate  | ND        | 0.075  | 0.25   | -       | -             | -               |
| 4-Bromophenyl phenyl ether    | ND        | 0.26   | 1.0    | -       | -             | -               |
| Butylbenzyl Phthalate         | 0.019,J   | 0.018  | 0.25   | -       | -             | -               |
| 4-Chloroaniline               | ND        | 0.0037 | 0.0050 | -       | -             | -               |
| 4-Chloro-3-methylphenol       | ND        | 0.30   | 1.0    | -       | -             | -               |
| 2-Chloronaphthalene           | ND        | 0.22   | 1.0    | -       | -             | -               |
| 2-Chlorophenol                | ND        | 0.013  | 0.050  | -       | -             | -               |
| 4-Chlorophenyl phenyl ether   | ND        | 0.24   | 1.0    | -       | -             | -               |
| Chrysene                      | 0.0032,J  | 0.0020 | 0.0050 | -       | -             | -               |
| Dibenzo (a,h) anthracene      | ND        | 0.0066 | 0.010  | -       | -             | -               |
| Dibenzofuran                  | ND        | 0.0012 | 0.0050 | -       | -             | -               |
| Di-n-butyl phthalate          | ND        | 0.039  | 0.25   | -       | -             | -               |
| 1,2-Dichlorobenzene           | ND        | 0.26   | 1.0    | -       | -             | -               |
| 1,3-Dichlorobenzene           | ND        | 0.28   | 1.0    | -       | -             | -               |
| 1,4-Dichlorobenzene           | ND        | 0.31   | 1.0    | -       | -             | -               |
| 3,3-Dichlorobenzidine         | ND        | 0.0018 | 0.010  | -       | -             | -               |
| 2,4-Dichlorophenol            | ND        | 0.0040 | 0.010  | -       | -             | -               |
| Diethyl phthalate             | ND        | 0.011  | 0.050  | -       | -             | -               |
| 2,4-Dimethylphenol            | ND        | 0.51   | 1.0    | -       | -             | -               |
| Dimethyl phthalate            | ND        | 0.0031 | 0.010  | -       | -             | -               |
| 4,6-Dinitro-2-methylphenol    | ND        | 3.0    | 5.0    | -       | -             | -               |
| 2,4-Dinitrophenol             | ND        | 0.32   | 1.0    | -       | -             | -               |
| 2,4-Dinitrotoluene            | ND        | 0.013  | 0.050  | -       | -             | -               |
| 2,6-Dinitrotoluene            | ND        | 0.017  | 0.050  | -       | -             | -               |

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/17/2025  
**Date Analyzed:** 07/18/2025  
**Instrument:** GC21  
**Matrix:** Water  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**BatchID:** 321597  
**Extraction Method:** E625  
**Analytical Method:** SW8270E  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-321597

### QC Summary Report for SW8270E

| Analyte                         | MB Result | MDL     | RL     | SPK Val | MB IS/SS %REC | MB IS/SS Limits |
|---------------------------------|-----------|---------|--------|---------|---------------|-----------------|
| Di-n-octyl phthalate            | ND        | 0.80    | 2.5    | -       | -             | -               |
| 1,2-Diphenylhydrazine           | ND        | 0.29    | 1.0    | -       | -             | -               |
| Fluoranthene                    | ND        | 0.0072  | 0.010  | -       | -             | -               |
| Fluorene                        | ND        | 0.0023  | 0.010  | -       | -             | -               |
| Hexachlorobenzene               | ND        | 0.00085 | 0.0050 | -       | -             | -               |
| Hexachlorobutadiene             | ND        | 0.00080 | 0.0050 | -       | -             | -               |
| Hexachlorocyclopentadiene       | ND        | 1.6     | 5.0    | -       | -             | -               |
| Hexachloroethane                | ND        | 0.0021  | 0.010  | -       | -             | -               |
| Indeno (1,2,3-cd) pyrene        | ND        | 0.0056  | 0.010  | -       | -             | -               |
| 1-Methylnaphthalene             | ND        | 0.0031  | 0.0050 | -       | -             | -               |
| Isophorone                      | ND        | 0.24    | 1.0    | -       | -             | -               |
| 2-Methylnaphthalene             | ND        | 0.0042  | 0.0050 | -       | -             | -               |
| 2-Methylphenol (o-cresol)       | ND        | 0.29    | 1.0    | -       | -             | -               |
| 3 & 4-Methylphenol (m,p-Cresol) | ND        | 0.28    | 1.0    | -       | -             | -               |
| Naphthalene                     | ND        | 0.0035  | 0.010  | -       | -             | -               |
| 2-Nitroaniline                  | ND        | 1.1     | 5.0    | -       | -             | -               |
| 3-Nitroaniline                  | ND        | 3.4     | 5.0    | -       | -             | -               |
| 4-Nitroaniline                  | ND        | 1.3     | 5.0    | -       | -             | -               |
| Nitrobenzene                    | ND        | 0.24    | 1.0    | -       | -             | -               |
| 2-Nitrophenol                   | ND        | 1.6     | 5.0    | -       | -             | -               |
| 4-Nitrophenol                   | ND        | 1.7     | 5.0    | -       | -             | -               |
| N-Nitrosodimethylamine          | ND        | 0.21    | 1.0    | -       | -             | -               |
| N-Nitrosodiphenylamine          | ND        | 0.24    | 1.0    | -       | -             | -               |
| N-Nitrosodi-n-propylamine       | ND        | 0.29    | 1.0    | -       | -             | -               |
| Pentachlorophenol               | ND        | 0.065   | 0.25   | -       | -             | -               |
| Phenanthrene                    | ND        | 0.0018  | 0.0050 | -       | -             | -               |
| Phenol                          | ND        | 0.017   | 0.040  | -       | -             | -               |
| Pyrene                          | ND        | 0.0021  | 0.0050 | -       | -             | -               |
| Pyridine                        | ND        | 0.34    | 1.0    | -       | -             | -               |
| 1,2,4-Trichlorobenzene          | ND        | 0.30    | 1.0    | -       | -             | -               |
| 2,4,5-Trichlorophenol           | ND        | 0.0062  | 0.010  | -       | -             | -               |
| 2,4,6-Trichlorophenol           | ND        | 0.0031  | 0.010  | -       | -             | -               |

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/17/2025  
**Date Analyzed:** 07/18/2025  
**Instrument:** GC21  
**Matrix:** Water  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**BatchID:** 321597  
**Extraction Method:** E625  
**Analytical Method:** SW8270E  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-321597

### QC Summary Report for SW8270E

| Analyte                   | MB<br>Result | MDL | RL | SPK<br>Val | MB IS/SS<br>%REC | MB IS/SS<br>Limits |
|---------------------------|--------------|-----|----|------------|------------------|--------------------|
| <b>Surrogate Recovery</b> |              |     |    |            |                  |                    |
| 2-Fluorophenol            | 3.0          |     |    | 5          | 60               | 30-130             |
| Phenol-d5                 | 2.0          |     |    | 5          | 39               | 20-130             |
| Nitrobenzene-d5           | 4.8          |     |    | 5          | 96               | 60-130             |
| 2-Fluorobiphenyl          | 3.7          |     |    | 5          | 73               | 50-130             |
| 2,4,6-Tribromophenol      | 4.1          |     |    | 5          | 83               | 60-140             |
| 4-Terphenyl-d14           | 4.2          |     |    | 5          | 84               | 40-130             |



## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/17/2025  
**Date Analyzed:** 07/18/2025  
**Instrument:** GC21  
**Matrix:** Water  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**BatchID:** 321597  
**Extraction Method:** E625  
**Analytical Method:** SW8270E  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-321597

### QC Summary Report for SW8270E

| Analyte                       | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD     | RPD Limit |
|-------------------------------|------------|-------------|---------|----------|-----------|-----------------|---------|-----------|
| Acenaphthene                  | 0.23       | 0.23        | 0.25    | 91       | 91        | 60-132          | 0.112   | 25        |
| Acenaphthylene                | 0.21       | 0.21        | 0.25    | 83       | 83        | 54-126          | 0.0641  | 25        |
| Anthracene                    | 0.23       | 0.22        | 0.25    | 90       | 89        | 60-130          | 1.46    | 25        |
| Benzidine                     | 5.4        | 5.6         | 25      | 21       | 22        | 20-130          | 4.67    | 25        |
| Benzo (a) anthracene          | 0.25       | 0.25        | 0.25    | 102      | 101       | 60-130          | 1.05    | 25        |
| Benzo (a) pyrene              | 0.31       | 0.31        | 0.25    | 123      | 123       | 60-130          | 0.346   | 25        |
| Benzo (b) fluoranthene        | 0.29       | 0.31        | 0.25    | 116      | 122       | 60-130          | 4.97    | 25        |
| Benzo (g,h,i) perylene        | 0.31       | 0.31        | 0.25    | 123      | 123       | 50-130          | 0.672   | 25        |
| Benzo (k) fluoranthene        | 0.34       | 0.32        | 0.25    | 137,F5   | 129       | 60-130          | 5.98    | 25        |
| Benzyl Alcohol                | 20         | 19          | 25      | 78       | 78        | 60-130          | 1.05    | 25        |
| Bis (2-chloroethoxy) methane  | 4.0        | 4.0         | 5       | 80       | 81        | 60-130          | 1.40    | 25        |
| Bis (2-chloroethyl) ether     | 0.19       | 0.18        | 0.25    | 74       | 73        | 60-130          | 1.94    | 25        |
| Bis (2-chloroisopropyl) ether | 0.19       | 0.20        | 0.25    | 77       | 82        | 63-139          | 6.88    | 25        |
| Bis (2-ethylhexyl) Adipate    | 4.5        | 4.6         | 5       | 90       | 92        | 60-130          | 1.73    | 25        |
| Bis (2-ethylhexyl) Phthalate  | 0.23       | 0.23        | 0.25    | 91       | 91        | 60-130          | 0.693   | 25        |
| 4-Bromophenyl phenyl ether    | 4.2        | 4.3         | 5       | 84       | 87        | 65-120          | 3.65    | 25        |
| Butylbenzyl Phthalate         | 0.24       | 0.24        | 0.25    | 95       | 96        | 60-140          | 1.23    | 25        |
| 4-Chloroaniline               | 0.20       | 0.20        | 0.25    | 79       | 79        | 60-130          | 0.610   | 25        |
| 4-Chloro-3-methylphenol       | 4.9        | 4.8         | 5       | 98       | 97        | 65-130          | 0.990   | 25        |
| 2-Chloronaphthalene           | 4.4        | 4.3         | 5       | 88       | 87        | 65-120          | 0.949   | 25        |
| 2-Chlorophenol                | 0.19       | 0.19        | 0.25    | 78       | 78        | 60-130          | 0.418   | 25        |
| 4-Chlorophenyl phenyl ether   | 4.4        | 4.5         | 5       | 89       | 91        | 65-130          | 2.74    | 25        |
| Chrysene                      | 0.28       | 0.28        | 0.25    | 110      | 112       | 70-130          | 1.56    | 25        |
| Dibenzo (a,h) anthracene      | 0.31       | 0.31        | 0.25    | 123      | 124       | 50-130          | 0.749   | 25        |
| Dibenzofuran                  | 0.21       | 0.21        | 0.25    | 86       | 86        | 65-130          | 0.00517 | 25        |
| Di-n-butyl phthalate          | 0.24       | 0.24        | 0.25    | 95       | 94        | 60-130          | 1.13    | 25        |
| 1,2-Dichlorobenzene           | 4.1        | 4.1         | 5       | 83       | 82        | 60-130          | 1.06    | 25        |
| 1,3-Dichlorobenzene           | 3.9        | 3.9         | 5       | 78       | 78        | 60-130          | 0.214   | 25        |
| 1,4-Dichlorobenzene           | 3.9        | 3.9         | 5       | 79       | 78        | 60-130          | 0.950   | 25        |
| 3,3-Dichlorobenzidine         | 0.24       | 0.25        | 0.25    | 96       | 100       | 60-160          | 3.95    | 25        |
| 2,4-Dichlorophenol            | 0.21       | 0.21        | 0.25    | 83       | 84        | 70-130          | 0.972   | 25        |
| Diethyl phthalate             | 0.24       | 0.24        | 0.25    | 94       | 95        | 65-130          | 0.478   | 25        |
| 2,4-Dimethylphenol            | 4.0        | 4.0         | 5       | 80       | 80        | 60-130          | 0.147   | 25        |
| Dimethyl phthalate            | 0.21       | 0.20        | 0.25    | 82       | 81        | 60-130          | 0.707   | 25        |
| 4,6-Dinitro-2-methylphenol    | 29         | 31          | 25      | 117      | 122       | 60-130          | 4.79    | 25        |
| 2,4-Dinitrophenol             | 6.5        | 6.7         | 5       | 129      | 135,F5    | 50-130          | 4.23    | 25        |
| 2,4-Dinitrotoluene            | 0.32       | 0.33        | 0.25    | 129      | 131,F5    | 70-130          | 2.14    | 25        |
| 2,6-Dinitrotoluene            | 0.31       | 0.32        | 0.25    | 125      | 129       | 68-137          | 3.13    | 25        |

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/17/2025  
**Date Analyzed:** 07/18/2025  
**Instrument:** GC21  
**Matrix:** Water  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**BatchID:** 321597  
**Extraction Method:** E625  
**Analytical Method:** SW8270E  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-321597

### QC Summary Report for SW8270E

| Analyte                         | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD    | RPD Limit |
|---------------------------------|------------|-------------|---------|----------|-----------|-----------------|--------|-----------|
| Di-n-octyl phthalate            | 5.5        | 5.4         | 5       | 110      | 108       | 70-130          | 1.83   | 25        |
| 1,2-Diphenylhydrazine           | 4.5        | 4.3         | 5       | 90       | 87        | 65-130          | 3.59   | 25        |
| Fluoranthene                    | 0.25       | 0.25        | 0.25    | 100      | 99        | 65-130          | 1.21   | 25        |
| Fluorene                        | 0.24       | 0.24        | 0.25    | 95       | 96        | 70-120          | 1.11   | 25        |
| Hexachlorobenzene               | 0.23       | 0.22        | 0.25    | 90       | 89        | 60-130          | 0.677  | 25        |
| Hexachlorobutadiene             | 0.19       | 0.19        | 0.25    | 78       | 77        | 70-130          | 0.543  | 25        |
| Hexachlorocyclopentadiene       | 19         | 20          | 25      | 76       | 79        | 50-130          | 3.69   | 25        |
| Hexachloroethane                | 0.20       | 0.19        | 0.25    | 80       | 78        | 55-120          | 3.35   | 25        |
| Indeno (1,2,3-cd) pyrene        | 0.31       | 0.31        | 0.25    | 125      | 124       | 50-130          | 0.668  | 25        |
| 1-Methylnaphthalene             | 0.22       | 0.22        | 0.25    | 87       | 87        | 65-130          | 0.185  | 25        |
| Isophorone                      | 4.1        | 4.0         | 5       | 82       | 80        | 50-130          | 2.57   | 25        |
| 2-Methylnaphthalene             | 0.21       | 0.21        | 0.25    | 85       | 85        | 60-130          | 0.300  | 25        |
| 2-Methylphenol (o-cresol)       | 3.7        | 3.7         | 5       | 73       | 74        | 60-130          | 0.911  | 25        |
| 3 & 4-Methylphenol (m,p-Cresol) | 3.6        | 3.5         | 5       | 71       | 71        | 60-130          | 0.940  | 25        |
| Naphthalene                     | 0.21       | 0.21        | 0.25    | 85       | 84        | 70-130          | 0.838  | 25        |
| 2-Nitroaniline                  | 25         | 25          | 25      | 100      | 100       | 65-130          | 0.467  | 25        |
| 3-Nitroaniline                  | 26         | 26          | 25      | 103      | 106       | 70-140          | 3.25   | 25        |
| 4-Nitroaniline                  | 27         | 27          | 25      | 108      | 109       | 70-130          | 1.06   | 25        |
| Nitrobenzene                    | 4.7        | 4.6         | 5       | 94       | 93        | 60-130          | 1.48   | 25        |
| 2-Nitrophenol                   | 27         | 28          | 25      | 107      | 113       | 70-130          | 5.37   | 25        |
| 4-Nitrophenol                   | 11         | 11          | 25      | 42       | 43        | 30-130          | 1.73   | 25        |
| N-Nitrosodimethylamine          | 2.6        | 2.7         | 5       | 52       | 53        | 30-130          | 2.02   | 25        |
| N-Nitrosodiphenylamine          | 4.4        | 4.3         | 5       | 88       | 87        | 65-130          | 0.930  | 25        |
| N-Nitrosodi-n-propylamine       | 3.8        | 3.6         | 5       | 77       | 71        | 59-130          | 7.54   | 25        |
| Pentachlorophenol               | 1.4        | 1.4         | 1.25    | 113      | 113       | 60-130          | 0.0446 | 25        |
| Phenanthrene                    | 0.23       | 0.23        | 0.25    | 94       | 92        | 65-120          | 1.53   | 25        |
| Phenol                          | 0.37       | 0.37        | 1       | 37       | 37        | 30-120          | 0.830  | 25        |
| Pyrene                          | 0.25       | 0.25        | 0.25    | 100      | 99        | 70-120          | 0.861  | 25        |
| Pyridine                        | 1.8        | 1.8         | 5       | 37       | 36        | 30-130          | 0.470  | 25        |
| 1,2,4-Trichlorobenzene          | 3.9        | 4.1         | 5       | 78       | 81        | 60-130          | 3.91   | 25        |
| 2,4,5-Trichlorophenol           | 0.24       | 0.24        | 0.25    | 97       | 96        | 65-130          | 0.183  | 25        |
| 2,4,6-Trichlorophenol           | 0.23       | 0.23        | 0.25    | 91       | 92        | 60-130          | 0.978  | 25        |

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/17/2025  
**Date Analyzed:** 07/18/2025  
**Instrument:** GC21  
**Matrix:** Water  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**BatchID:** 321597  
**Extraction Method:** E625  
**Analytical Method:** SW8270E  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-321597

### QC Summary Report for SW8270E

| Analyte                   | LCS<br>Result | LCSD<br>Result | SPK<br>Val | LCS<br>%REC | LCSD<br>%REC | LCS/LCSD<br>Limits | RPD   | RPD<br>Limit |
|---------------------------|---------------|----------------|------------|-------------|--------------|--------------------|-------|--------------|
| <b>Surrogate Recovery</b> |               |                |            |             |              |                    |       |              |
| 2-Fluorophenol            | 2.6           | 2.5            | 5          | 52          | 50           | 30-130             | 4.07  | 25           |
| Phenol-d5                 | 1.8           | 1.7            | 5          | 35          | 35           | 20-130             | 0.452 | 25           |
| Nitrobenzene-d5           | 4.7           | 4.8            | 5          | 95          | 97           | 60-130             | 2.24  | 25           |
| 2-Fluorobiphenyl          | 3.3           | 3.5            | 5          | 66          | 69           | 50-130             | 5.74  | 25           |
| 2,4,6-Tribromophenol      | 5.1           | 4.8            | 5          | 102         | 97           | 60-140             | 4.75  | 25           |
| 4-Terphenyl-d14           | 3.6           | 3.8            | 5          | 72          | 75           | 40-130             | 3.59  | 25           |



## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/18/2025  
**Date Analyzed:** 07/21/2025  
**Instrument:** ICP-MS4  
**Matrix:** Water  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**BatchID:** 321723  
**Extraction Method:** E200.8  
**Analytical Method:** E200.8  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-321723

### QC Report for Metals (>1% Sediment Content)

| Analyte                   | MB Result | MDL  | RL   | SPK Val | MB IS/SS %REC | MB IS/SS Limits |
|---------------------------|-----------|------|------|---------|---------------|-----------------|
| Antimony                  | ND        | 0.54 | 2.5  | -       | -             | -               |
| Arsenic                   | ND        | 0.42 | 2.5  | -       | -             | -               |
| Barium                    | ND        | 3.4  | 25   | -       | -             | -               |
| Beryllium                 | ND        | 0.27 | 2.5  | -       | -             | -               |
| Cadmium                   | ND        | 0.24 | 2.5  | -       | -             | -               |
| Chromium                  | ND        | 1.3  | 2.5  | -       | -             | -               |
| Cobalt                    | ND        | 0.21 | 2.5  | -       | -             | -               |
| Copper                    | ND        | 1.1  | 2.5  | -       | -             | -               |
| Lead                      | ND        | 0.66 | 2.5  | -       | -             | -               |
| Mercury                   | ND        | 0.11 | 0.25 | -       | -             | -               |
| Molybdenum                | ND        | 0.48 | 2.5  | -       | -             | -               |
| Nickel                    | ND        | 0.93 | 2.5  | -       | -             | -               |
| Selenium                  | ND        | 1.2  | 2.5  | -       | -             | -               |
| Silver                    | ND        | 0.30 | 2.5  | -       | -             | -               |
| Thallium                  | ND        | 0.22 | 2.5  | -       | -             | -               |
| Vanadium                  | ND        | 0.51 | 2.5  | -       | -             | -               |
| Zinc                      | 16,J      | 9.2  | 25   | -       | -             | -               |
| <b>Surrogate Recovery</b> |           |      |      |         |               |                 |
| Terbium                   | 2600      |      |      | 2500    | 103           | 70-130          |

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/18/2025  
**Date Analyzed:** 07/21/2025  
**Instrument:** ICP-MS4  
**Matrix:** Water  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**BatchID:** 321723  
**Extraction Method:** E200.8  
**Analytical Method:** E200.8  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-321723

### QC Report for Metals (>1% Sediment Content)

| Analyte                   | LCS<br>Result | LCSD<br>Result | SPK<br>Val | LCS<br>%REC | LCSD<br>%REC | LCS/LCSD<br>Limits | RPD    | RPD<br>Limit |
|---------------------------|---------------|----------------|------------|-------------|--------------|--------------------|--------|--------------|
| Antimony                  | 240           | 250            | 250        | 97          | 99           | 85-115             | 1.32   | 20           |
| Arsenic                   | 250           | 250            | 250        | 101         | 101          | 85-115             | 0.0693 | 20           |
| Barium                    | 2400          | 2500           | 2500       | 98          | 99           | 85-115             | 1.19   | 20           |
| Beryllium                 | 230           | 240            | 250        | 93          | 95           | 85-115             | 2.15   | 20           |
| Cadmium                   | 250           | 260            | 250        | 100         | 102          | 85-115             | 1.98   | 20           |
| Chromium                  | 250           | 260            | 250        | 101         | 102          | 85-115             | 1.25   | 20           |
| Cobalt                    | 240           | 240            | 250        | 95          | 97           | 85-115             | 2.97   | 20           |
| Copper                    | 250           | 260            | 250        | 99          | 102          | 85-115             | 2.77   | 20           |
| Lead                      | 240           | 250            | 250        | 97          | 100          | 85-115             | 3.37   | 20           |
| Mercury                   | 6.1           | 6.5            | 6.25       | 97          | 104          | 85-115             | 6.21   | 20           |
| Molybdenum                | 240           | 250            | 250        | 97          | 100          | 85-115             | 2.75   | 20           |
| Nickel                    | 260           | 260            | 250        | 102         | 103          | 85-115             | 0.316  | 20           |
| Selenium                  | 250           | 260            | 250        | 101         | 103          | 85-115             | 2.63   | 20           |
| Silver                    | 250           | 250            | 250        | 99          | 102          | 85-115             | 2.52   | 20           |
| Thallium                  | 250           | 250            | 250        | 100         | 102          | 85-115             | 1.33   | 20           |
| Vanadium                  | 250           | 260            | 250        | 100         | 102          | 85-115             | 2.28   | 20           |
| Zinc                      | 2500          | 2500           | 2500       | 99          | 102          | 85-115             | 2.37   | 20           |
| <b>Surrogate Recovery</b> |               |                |            |             |              |                    |        |              |
| Terbium                   | 2600          | 2600           | 2500       | 102         | 104          | 70-130             | 2.04   | 20           |



## Quality Control Report

|                       |                             |                           |                    |
|-----------------------|-----------------------------|---------------------------|--------------------|
| <b>Client:</b>        | Langan                      | <b>WorkOrder:</b>         | 2507A49            |
| <b>Date Prepared:</b> | 07/21/2025                  | <b>BatchID:</b>           | 321813             |
| <b>Date Analyzed:</b> | 07/22/2025                  | <b>Extraction Method:</b> | E245.2             |
| <b>Instrument:</b>    | AA1                         | <b>Analytical Method:</b> | E245.2             |
| <b>Matrix:</b>        | Water                       | <b>Unit:</b>              | µg/L               |
| <b>Project:</b>       | 770651908; Northtown Campus | <b>Sample ID:</b>         | MB/LCS/LCSD-321813 |

### QC Summary Report for Mercury

| Analyte | MB Result | MDL  | RL   |   |   |   |
|---------|-----------|------|------|---|---|---|
| Mercury | ND        | 0.12 | 0.20 | - | - | - |

| Analyte | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD  | RPD Limit |
|---------|------------|-------------|---------|----------|-----------|-----------------|------|-----------|
| Mercury | 1.9        | 2.0         | 2       | 96       | 99        | 85-115          | 3.39 | 20        |



## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/17/2025  
**Date Analyzed:** 07/17/2025  
**Instrument:** GC11A  
**Matrix:** Water  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**BatchID:** 321601  
**Extraction Method:** SW3510 C  
**Analytical Method:** SW8015 B  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-321601

### QC Report for SW8015B w/out SG Clean-Up

| Analyte                   | MB Result | MDL | RL  | SPK Val | MB IS/SS %REC | MB IS/SS Limits |
|---------------------------|-----------|-----|-----|---------|---------------|-----------------|
| TPH-Diesel (C10-C23)      | ND        | 56  | 100 | -       | -             | -               |
| TPH-Motor Oil (C18-C36)   | ND        | 160 | 500 | -       | -             | -               |
| <b>Surrogate Recovery</b> |           |     |     |         |               |                 |
| C9                        | 690       |     |     | 625     | 110           | 73-144          |

| Analyte                   | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD  | RPD Limit |
|---------------------------|------------|-------------|---------|----------|-----------|-----------------|------|-----------|
| TPH-Diesel (C10-C23)      | 960        | 980         | 1000    | 96       | 98        | 70-130          | 1.94 | 20        |
| <b>Surrogate Recovery</b> |            |             |         |          |           |                 |      |           |
| C9                        | 670        | 680         | 625     | 107      | 109       | 73-144          | 2.27 | 20        |



## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/18/2025  
**Date Analyzed:** 07/18/2025  
**Instrument:** GC57  
**Matrix:** Water  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49  
**BatchID:** 321802  
**Extraction Method:** SW5030 B  
**Analytical Method:** SW8015 B  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-321802

### QC Summary Report for 8015B

| Analyte                   | MB Result | MDL | RL | SPK Val | MB IS/SS %REC | MB IS/SS Limits |
|---------------------------|-----------|-----|----|---------|---------------|-----------------|
| TPH(g) (C6-C12)           | ND        | 21  | 50 | -       | -             | -               |
| <b>Surrogate Recovery</b> |           |     |    |         |               |                 |
| aaa-TFT                   | 11        |     |    | 10      | 112           | 60-140          |

| Analyte                   | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD  | RPD Limit |
|---------------------------|------------|-------------|---------|----------|-----------|-----------------|------|-----------|
| TPH(g) (C6-C12)           | 210        | 210         | 200     | 104      | 107       | 60-140          | 2.27 | 20        |
| <b>Surrogate Recovery</b> |            |             |         |          |           |                 |      |           |
| aaa-TFT                   | 11         | 11          | 10      | 113      | 115       | 60-140          | 1.73 | 20        |



## Certified Analyte List

**Client:** Langan

**WorkOrder:** 2507A49

**Project:** 770651908; Northtown Campus

| Analyte                   | Cert 1                           | Cert 2                           | Cert 3                           | Cert 4                | Cert 5                | Analytical Method | Matrix |
|---------------------------|----------------------------------|----------------------------------|----------------------------------|-----------------------|-----------------------|-------------------|--------|
| 10:2 FTS                  | <input type="radio"/>            | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Water  |
| 11CIPF3OUdS               | <input checked="" type="radio"/> | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Water  |
| 3:3 FTCA                  | <input checked="" type="radio"/> | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Water  |
| 4:2 FTS                   | <input checked="" type="radio"/> | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Water  |
| 5:3 FTCA                  | <input checked="" type="radio"/> | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Water  |
| 6:2 FTS                   | <input checked="" type="radio"/> | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Water  |
| 7:3 FTCA                  | <input checked="" type="radio"/> | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Water  |
| 8:2 FTS                   | <input checked="" type="radio"/> | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Water  |
| 9CIPF3ONS                 | <input checked="" type="radio"/> | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Water  |
| ADONA                     | <input checked="" type="radio"/> | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Water  |
| EtFOSA                    | <input checked="" type="radio"/> | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Water  |
| EtFOSE                    | <input checked="" type="radio"/> | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Water  |
| HFPO-DA                   | <input checked="" type="radio"/> | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Water  |
| MeFOSA                    | <input checked="" type="radio"/> | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Water  |
| MeFOSE                    | <input checked="" type="radio"/> | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Water  |
| NEtFOSAA                  | <input checked="" type="radio"/> | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Water  |
| NFDHA                     | <input checked="" type="radio"/> | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Water  |
| NMeFOSAA                  | <input checked="" type="radio"/> | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Water  |
| PFBA                      | <input checked="" type="radio"/> | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Water  |
| PFBS                      | <input checked="" type="radio"/> | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Water  |
| PFDA                      | <input checked="" type="radio"/> | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Water  |
| PFDoA                     | <input checked="" type="radio"/> | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Water  |
| PFDoS                     | <input checked="" type="radio"/> | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Water  |
| PFDS                      | <input checked="" type="radio"/> | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Water  |
| PFEESA                    | <input checked="" type="radio"/> | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Water  |
| PFHpA                     | <input checked="" type="radio"/> | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Water  |
| PFHpS                     | <input checked="" type="radio"/> | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Water  |
| PFHxA                     | <input checked="" type="radio"/> | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Water  |
| PFHxDA                    | <input checked="" type="radio"/> | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Water  |
| PFHxS                     | <input checked="" type="radio"/> | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Water  |
| PFMBA                     | <input checked="" type="radio"/> | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Water  |
| PFMPA                     | <input checked="" type="radio"/> | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Water  |
| PFNA                      | <input checked="" type="radio"/> | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Water  |
| PFNS                      | <input checked="" type="radio"/> | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Water  |
| PFOA                      | <input checked="" type="radio"/> | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Water  |
| PFODA                     | <input type="radio"/>            | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Water  |
| PFOS                      | <input checked="" type="radio"/> | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Water  |
| PFOSA                     | <input type="radio"/>            | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Water  |
| PFPeA                     | <input checked="" type="radio"/> | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Water  |
| PFPeS                     | <input checked="" type="radio"/> | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Water  |
| PFTeDA                    | <input checked="" type="radio"/> | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Water  |
| PFTrDA                    | <input checked="" type="radio"/> | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Water  |
| PFUnA                     | <input checked="" type="radio"/> | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Water  |
| 1,1,1,2-Tetrachloroethane | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| 1,1,1-Trichloroethane     | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| 1,1,2,2-Tetrachloroethane | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| 1,1,2-Trichloroethane     | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| 1,1-Dichloroethane        | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| 1,1-Dichloroethene        | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| 1,1-Dichloropropene       | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |





## Certified Analyte List

**Client:** Langan

**WorkOrder:** 2507A49

**Project:** 770651908; Northtown Campus

| Analyte                       | Cert 1 | Cert 2 | Cert 3 | Cert 4 | Cert 5 | Analytical Method | Matrix |
|-------------------------------|--------|--------|--------|--------|--------|-------------------|--------|
| 1,2,3-Trichlorobenzene        | ○      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| 1,2,3-Trichloropropane        | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| 1,2,4-Trichlorobenzene        | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| 1,2,4-Trimethylbenzene        | ○      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| 1,2-Dibromo-3-chloropropane   | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| 1,2-Dibromoethane (EDB)       | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| 1,2-Dichlorobenzene           | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| 1,2-Dichloroethane (1,2-DCA)  | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| 1,2-Dichloropropane           | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| 1,3,5-Trimethylbenzene        | ○      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| 1,3-Dichlorobenzene           | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| 1,3-Dichloropropane           | ○      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| 1,4-Dichlorobenzene           | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| 2,2-Dichloropropane           | ○      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| 2-Butanone (MEK)              | ○      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| 2-Chlorotoluene               | ○      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| 2-Hexanone                    | ○      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| 4-Chlorotoluene               | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| 4-Isopropyl toluene           | ○      | ○      | ○      | ○      | ○      | SW8260D           | Water  |
| 4-Methyl-2-pentanone (MIBK)   | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| Acetone                       | ○      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| Benzene                       | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| Bromobenzene                  | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| Bromochloromethane            | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| Bromodichloromethane          | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| Bromoform                     | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| Bromomethane                  | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| Carbon Disulfide              | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| Carbon Tetrachloride          | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| Chlorobenzene                 | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| Chloroethane                  | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| Chloroform                    | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| Chloromethane                 | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| cis-1,2-Dichloroethene        | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| cis-1,3-Dichloropropene       | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| Dibromochloromethane          | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| Dibromomethane                | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| Dichlorodifluoromethane       | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| Diisopropyl ether (DIPE)      | ●      | ○      | ○      | ○      | ○      | SW8260D           | Water  |
| Ethyl tert-butyl ether (ETBE) | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| Ethylbenzene                  | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| Freon 113                     | ○      | ○      | ○      | ○      | ○      | SW8260D           | Water  |
| Hexachlorobutadiene           | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| Hexachloroethane              | ○      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| Isopropylbenzene              | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| m,p-Xylene                    | ●      | ○      | ○      | ○      | ○      | SW8260D           | Water  |
| Methylene chloride            | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| Methyl-t-butyl ether (MTBE)   | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| Naphthalene                   | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| n-Butyl benzene               | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |



## Certified Analyte List

**Client:** Langan

**WorkOrder:** 2507A49

**Project:** 770651908; Northtown Campus

| Analyte                         | Cert 1 | Cert 2 | Cert 3 | Cert 4 | Cert 5 | Analytical Method | Matrix |
|---------------------------------|--------|--------|--------|--------|--------|-------------------|--------|
| n-Propyl benzene                | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| o-Xylene                        | ●      | ○      | ○      | ○      | ○      | SW8260D           | Water  |
| sec-Butyl benzene               | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| Styrene                         | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| t-Butyl alcohol (TBA)           | ○      | ○      | ○      | ○      | ○      | SW8260D           | Water  |
| tert-Amyl methyl ether (TAME)   | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| tert-Butyl benzene              | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| Tetrachloroethene               | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| Toluene                         | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| trans-1,2-Dichloroethene        | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| trans-1,3-Dichloropropene       | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| Trichloroethene                 | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| Trichlorofluoromethane          | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| Vinyl Chloride                  | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| Xylenes, Total                  | ○      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| 1,1-Biphenyl                    | ○      | ○      | ○      | ○      | ○      | SW8270E           | Water  |
| 1,2,4-Trichlorobenzene          | ○      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| 1,2-Dichlorobenzene             | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| 1,2-Diphenylhydrazine           | ○      | ○      | ○      | ○      | ○      | SW8270E           | Water  |
| 1,3-Dichlorobenzene             | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| 1,4-Dichlorobenzene             | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| 1-Methylnaphthalene             | ○      | ○      | ○      | ○      | ○      | SW8270E           | Water  |
| 2,3,4,6-Tetrachlorophenol       | ○      | ○      | ○      | ○      | ○      | SW8270E           | Water  |
| 2,4,5-Trichlorophenol           | ○      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| 2,4,6-Trichlorophenol           | ○      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| 2,4-Dichlorophenol              | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| 2,4-Dimethylphenol              | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| 2,4-Dinitrophenol               | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| 2,4-Dinitrotoluene              | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| 2,6-Dichlorophenol              | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| 2,6-Dinitrotoluene              | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| 2-Chloronaphthalene             | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| 2-Chlorophenol                  | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| 2-Methylnaphthalene             | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| 2-Methylphenol (o-Cresol)       | ○      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| 2-Nitroaniline                  | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| 2-Nitrophenol                   | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| 3 & 4-Methylphenol (m,p-Cresol) | ○      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| 3,3-Dichlorobenzidine           | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| 3-Nitroaniline                  | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| 4,6-Dinitro-2-methylphenol      | ○      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| 4-Bromophenyl Phenyl Ether      | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| 4-Chloro-3-methylphenol         | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| 4-Chloroaniline                 | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| 4-Chlorophenyl Phenyl Ether     | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| 4-Nitroaniline                  | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| 4-Nitrophenol                   | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Acenaphthene                    | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Acenaphthylene                  | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Acetochlor                      | ○      | ○      | ○      | ○      | ○      | SW8270E           | Water  |



## Certified Analyte List

**Client:** Langan  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507A49

| Analyte                       | Cert 1 | Cert 2 | Cert 3 | Cert 4 | Cert 5 | Analytical Method | Matrix |
|-------------------------------|--------|--------|--------|--------|--------|-------------------|--------|
| Anthracene                    | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Benzidine                     | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Benzo (a) anthracene          | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Benzo (a) pyrene              | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Benzo (b) fluoranthene        | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Benzo (g,h,i) perylene        | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Benzo (k) fluoranthene        | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Benzoic Acid                  | ○      | ○      | ○      | ○      | ○      | SW8270E           | Water  |
| Benzyl Alcohol                | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Bis (2-chloroethoxy) Methane  | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Bis (2-chloroethyl) Ether     | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Bis (2-chloroisopropyl) Ether | ○      | ○      | ○      | ○      | ○      | SW8270E           | Water  |
| Bis (2-ethylhexyl) Adipate    | ○      | ○      | ○      | ○      | ○      | SW8270E           | Water  |
| Bis (2-ethylhexyl) Phthalate  | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Butylbenzyl Phthalate         | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Chrysene                      | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Dibenzo (a,h) anthracene      | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Dibenzofuran                  | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Diethyl Phthalate             | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Dimethyl Phthalate            | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Di-n-butyl Phthalate          | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Di-n-octyl Phthalate          | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Fluoranthene                  | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Fluorene                      | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Hexachlorobenzene             | ○      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Hexachlorobutadiene           | ○      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Hexachlorocyclopentadiene     | ○      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Hexachloroethane              | ○      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Indeno (1,2,3-cd) pyrene      | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Isophorone                    | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Naphthalene                   | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Nitrobenzene                  | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| N-Nitrosodimethylamine        | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| N-Nitrosodi-n-propylamine     | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| N-Nitrosodiphenylamine        | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Pentachlorophenol             | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Phenanthrene                  | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Phenol                        | ○      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Pyrene                        | ○      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Pyridine                      | ○      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Antimony                      | ●      | ●      | ○      | ○      | ○      | E200.8            | Water  |
| Arsenic                       | ●      | ●      | ○      | ○      | ○      | E200.8            | Water  |
| Barium                        | ●      | ●      | ○      | ○      | ○      | E200.8            | Water  |
| Beryllium                     | ●      | ●      | ○      | ○      | ○      | E200.8            | Water  |
| Cadmium                       | ●      | ●      | ○      | ○      | ○      | E200.8            | Water  |
| Chromium                      | ●      | ●      | ○      | ○      | ○      | E200.8            | Water  |
| Cobalt                        | ●      | ●      | ○      | ○      | ○      | E200.8            | Water  |
| Copper                        | ●      | ●      | ○      | ○      | ○      | E200.8            | Water  |
| Lead                          | ●      | ●      | ○      | ○      | ○      | E200.8            | Water  |
| Molybdenum                    | ●      | ●      | ○      | ○      | ○      | E200.8            | Water  |



## Certified Analyte List

**Client:** Langan

**WorkOrder:** 2507A49

**Project:** 770651908; Northtown Campus

| Analyte                 | Cert 1 | Cert 2 | Cert 3 | Cert 4 | Cert 5 | Analytical Method | Matrix |
|-------------------------|--------|--------|--------|--------|--------|-------------------|--------|
| Nickel                  | ●      | ●      | ○      | ○      | ○      | E200.8            | Water  |
| Selenium                | ●      | ●      | ○      | ○      | ○      | E200.8            | Water  |
| Silver                  | ●      | ●      | ○      | ○      | ○      | E200.8            | Water  |
| Thallium                | ●      | ●      | ○      | ○      | ○      | E200.8            | Water  |
| Vanadium                | ●      | ●      | ○      | ○      | ○      | E200.8            | Water  |
| Zinc                    | ●      | ●      | ○      | ○      | ○      | E200.8            | Water  |
| Mercury                 | ●      | ○      | ○      | ○      | ○      | E245.2            | Water  |
| TPH-Diesel (C10-C23)    | ●      | ●      | ○      | ○      | ○      | SW8015 B          | Water  |
| TPH-Motor Oil (C18-C36) | ●      | ●      | ○      | ○      | ○      | SW8015 B          | Water  |
| TPH(g) (C6-C12)         | ●      | ●      | ○      | ○      | ○      | SW8015 B          | Water  |

### Certifications

|        |                         |
|--------|-------------------------|
| Cert 1 | CA ELAP 1644            |
| Cert 2 | ORELAP (NELAP) 4033     |
| Cert 3 | DoD-ELAP Cert # L22-757 |

# McCampbell Analytical, Inc.



1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

# CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 2507A49

ClientCode: TRSJ

☐ WaterTrax

☐ CLIP

☐ EDF

☒ EQUIS

☐ Dry-Weight

☒ Email

☐ HardCopy

☐ ThirdParty

☐ J-flag

☐ Detection Summary

☐ Excel

## Report to:

Nelson Pi  
Langan  
1 Almaden Blvd, Suite 590  
San Jose, CA 95113  
407-494-8451 FAX:

Email: npi@langan.com  
cc/3rd Party: wwei@langan.com; drodriguez@Langan.co  
PO:  
Project: 770651908; Northtown Campus

## Bill to:

Accounts Payable  
Langan  
135 Main St, Suite 1500  
San Francisco, CA 94105  
Langan\_InvoiceCapture@concursolution

Requested TAT: 3 days;

Date Received: 07/17/2025

Date Logged: 07/17/2025

| Lab ID      | ClientSampleID | Matrix | Collection Date | Hold                     | Requested Tests (See legend below) |   |   |   |   |   |   |   |   |    |    |    |
|-------------|----------------|--------|-----------------|--------------------------|------------------------------------|---|---|---|---|---|---|---|---|----|----|----|
|             |                |        |                 |                          | 1                                  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 2507A49-001 | SB-01-GW       | Water  | 7/15/2025 13:35 | <input type="checkbox"/> | A                                  | B | C | E | E | A | D | D |   |    |    |    |
| 2507A49-002 | SB-02-GW       | Water  | 7/15/2025 11:50 | <input type="checkbox"/> | A                                  | B | C | E | E | A | D | D |   |    |    |    |
| 2507A49-003 | SB-03-GW       | Water  | 7/15/2025 15:54 | <input type="checkbox"/> | A                                  | B | C | E | E | A | D | D |   |    |    |    |
| 2507A49-004 | SB-04-GW       | Water  | 7/16/2025 11:11 | <input type="checkbox"/> | A                                  | B | C | E | E | A | D | D |   |    |    |    |
| 2507A49-005 | SB-05-GW       | Water  | 7/16/2025 09:36 | <input type="checkbox"/> | A                                  | B | C | E | E | A | D | D |   |    |    |    |

## Test Legend:

|   |        |
|---|--------|
| 1 | 1633_W |
| 5 | HG_W   |
| 9 |        |

|    |                |
|----|----------------|
| 2  | 8260_W         |
| 6  | PRDisposal Fee |
| 10 |                |

|    |             |
|----|-------------|
| 3  | 8270_SCSM_W |
| 7  | TPH(DMO)_W  |
| 11 |             |

|    |                  |
|----|------------------|
| 4  | CAM17MS_TTLC_Sed |
| 8  | TPH-Gas_W        |
| 12 |                  |

Prepared by: Valerie Alfaro

The following SampleIDs: 001D, 002D, 003D, 004D, 005D contain testgroup Multi Range\_W.

## Comments:

NOTE: Soil samples are discarded 60 days after receipt unless other arrangements are made (Water samples are 30 days).  
Hazardous samples will be returned to client or disposed of at client expense.



McC Campbell Analytical, Inc.

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http://www.mcccampbell.com / E-mail: main@mcccampbell.com

## WORK ORDER SUMMARY

**Client Name:** LANGAN  
**Client Contact:** Nelson Pi  
**Contact's Email:** npj@languan.com

**Project:** 770651908; Northtown Campus

**Work Order:** 2507A49

**QC Level:** LEVEL 2

**Date Logged:** 7/17/2025

**Comments**

☐ WaterTrax ☐ CLIP ☐ EDF ☐ Excel ☒ EQuIS ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

| LabID | ClientSampID | Matrix | Test Name                                     | Cont./<br>Comp. | Bottle &<br>Preservative                 | U**                      | Head<br>Space            | Dry-<br>Weight           | Collection Date<br>& Time | TAT    | Test Due Date | Sediment<br>Content | Hold                     | Sub<br>Out               |
|-------|--------------|--------|-----------------------------------------------|-----------------|------------------------------------------|--------------------------|--------------------------|--------------------------|---------------------------|--------|---------------|---------------------|--------------------------|--------------------------|
| 001A  | SB-01-GW     | Water  | E1633 Perfluorinated Compounds                | 3               | (2) 500mL HDPE +<br>(1) 125mL HDPE       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/15/2025 13:35           | 3 days | 7/22/2025     | 2%+                 | <input type="checkbox"/> | <input type="checkbox"/> |
| 001B  | SB-01-GW     | Water  | SW8260D (VOCs)                                | 1               | VOA w/ HCl                               | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/15/2025 13:35           | 3 days | 7/22/2025     | 2%+                 | <input type="checkbox"/> | <input type="checkbox"/> |
| 001C  | SB-01-GW     | Water  | SW8270E (SVOCs)                               | 1               | 1LA Narrow Mouth,<br>Unpres              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/15/2025 13:35           | 3 days | 7/22/2025     | 2%+                 | <input type="checkbox"/> | <input type="checkbox"/> |
| 001D  | SB-01-GW     | Water  | Multi-Range TPH Gas, Diesel, and<br>Motor Oil | 3               | 1 VOAs w/HCL + 2-<br>aVOAs (multi-range) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/15/2025 13:35           | 3 days | 7/22/2025     | 2%+                 | <input type="checkbox"/> | <input type="checkbox"/> |
| 001E  | SB-01-GW     | Water  | E245.2 (Mercury)                              | 1               | 250mL HDPE w/<br>HNO3                    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/15/2025 13:35           | 3 days | 7/22/2025     | 2%+                 | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | E200.8 (CAM 17)                               |                 |                                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 3 days | 7/22/2025     | 2%+                 | <input type="checkbox"/> | <input type="checkbox"/> |
| 002A  | SB-02-GW     | Water  | E1633 Perfluorinated Compounds                | 3               | (2) 500mL HDPE +<br>(1) 125mL HDPE       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/15/2025 11:50           | 3 days | 7/22/2025     | 2%+                 | <input type="checkbox"/> | <input type="checkbox"/> |
| 002B  | SB-02-GW     | Water  | SW8260D (VOCs)                                | 1               | VOA w/ HCl                               | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/15/2025 11:50           | 3 days | 7/22/2025     | 2%+                 | <input type="checkbox"/> | <input type="checkbox"/> |
| 002C  | SB-02-GW     | Water  | SW8270E (SVOCs)                               | 1               | 1LA Narrow Mouth,<br>Unpres              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/15/2025 11:50           | 3 days | 7/22/2025     | 2%+                 | <input type="checkbox"/> | <input type="checkbox"/> |

**NOTES:** \* STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- ISM prep requires 5 to 10 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 6 to 11 days from sample submission). Due date listed on WO summary will not accurately reflect the time needed for sample preparation.

- Organic extracts are held for 40 days before disposal; Inorganic extract are held for 30 days.

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

U\*\* = An unpreserved container was received for a method that suggests a preservation in order to extend hold time for analysis.



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## WORK ORDER SUMMARY

**Client Name:** LANGAN  
**Client Contact:** Nelson Pi  
**Contact's Email:** npj@languan.com

**Project:** 770651908; Northtown Campus

**Work Order:** 2507A49

**QC Level:** LEVEL 2

**Date Logged:** 7/17/2025

**Comments**

☐ WaterTrax ☐ CLIP ☐ EDF ☐ Excel ☒ EQuIS ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

| LabID | ClientSampID | Matrix | Test Name                                  | Cont./<br>Comp. | Bottle &<br>Preservative             | U**                      | Head<br>Space            | Dry-<br>Weight           | Collection Date<br>& Time | TAT    | Test Due Date | Sediment<br>Content | Hold                     | Sub<br>Out               |
|-------|--------------|--------|--------------------------------------------|-----------------|--------------------------------------|--------------------------|--------------------------|--------------------------|---------------------------|--------|---------------|---------------------|--------------------------|--------------------------|
| 002D  | SB-02-GW     | Water  | Multi-Range TPH Gas, Diesel, and Motor Oil | 3               | 1 VOAs w/HCL + 2-aVOAs (multi-range) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/15/2025 11:50           | 3 days | 7/22/2025     | 2%+                 | <input type="checkbox"/> | <input type="checkbox"/> |
| 002E  | SB-02-GW     | Water  | E245.2 (Mercury)                           | 1               | 250mL HDPE w/ HNO3                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/15/2025 11:50           | 3 days | 7/22/2025     | 2%+                 | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | E200.8 (CAM 17)                            |                 |                                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 3 days | 7/22/2025     | 2%+                 | <input type="checkbox"/> | <input type="checkbox"/> |
| 003A  | SB-03-GW     | Water  | E1633 Perfluorinated Compounds             | 3               | (2) 500mL HDPE + (1) 125mL HDPE      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/15/2025 15:54           | 3 days | 7/22/2025     | 2%+                 | <input type="checkbox"/> | <input type="checkbox"/> |
| 003B  | SB-03-GW     | Water  | SW8260D (VOCs)                             | 1               | VOA w/ HCL                           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/15/2025 15:54           | 3 days | 7/22/2025     | 2%+                 | <input type="checkbox"/> | <input type="checkbox"/> |
| 003C  | SB-03-GW     | Water  | SW8270E (SVOCs)                            | 1               | 1LA Narrow Mouth, Unpres             | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/15/2025 15:54           | 3 days | 7/22/2025     | 2%+                 | <input type="checkbox"/> | <input type="checkbox"/> |
| 003D  | SB-03-GW     | Water  | Multi-Range TPH Gas, Diesel, and Motor Oil | 3               | 1 VOAs w/HCL + 2-aVOAs (multi-range) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/15/2025 15:54           | 3 days | 7/22/2025     | 2%+                 | <input type="checkbox"/> | <input type="checkbox"/> |
| 003E  | SB-03-GW     | Water  | E245.2 (Mercury)                           | 1               | 250mL HDPE w/ HNO3                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/15/2025 15:54           | 3 days | 7/22/2025     | 2%+                 | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | E200.8 (CAM 17)                            |                 |                                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 3 days | 7/22/2025     | 2%+                 | <input type="checkbox"/> | <input type="checkbox"/> |

**NOTES:** \* STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

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http://www.mcccampbell.com / E-mail: main@mcccampbell.com

## WORK ORDER SUMMARY

**Client Name:** LANGAN  
**Client Contact:** Nelson Pi  
**Contact's Email:** npj@langan.com

**Project:** 770651908; Northtown Campus

**Work Order:** 2507A49

**QC Level:** LEVEL 2

**Date Logged:** 7/17/2025

**Comments**

☐ WaterTrax ☐ CLIP ☐ EDF ☐ Excel ☒ EQuIS ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

| LabID | ClientSampID | Matrix | Test Name                                     | Cont./<br>Comp. | Bottle &<br>Preservative                 | U**                      | Head<br>Space            | Dry-<br>Weight           | Collection Date<br>& Time | TAT    | Test Due Date | Sediment<br>Content | Hold                     | Sub<br>Out               |
|-------|--------------|--------|-----------------------------------------------|-----------------|------------------------------------------|--------------------------|--------------------------|--------------------------|---------------------------|--------|---------------|---------------------|--------------------------|--------------------------|
| 004A  | SB-04-GW     | Water  | E1633 Perfluorinated Compounds                | 3               | (2) 500mL HDPE +<br>(1) 125mL HDPE       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/16/2025 11:11           | 3 days | 7/22/2025     | 2%+                 | <input type="checkbox"/> | <input type="checkbox"/> |
| 004B  | SB-04-GW     | Water  | SW8260D (VOCs)                                | 2               | VOA w/ HCl                               | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/16/2025 11:11           | 3 days | 7/22/2025     | 2%+                 | <input type="checkbox"/> | <input type="checkbox"/> |
| 004C  | SB-04-GW     | Water  | SW8270E (SVOCs)                               | 1               | 1LA Narrow Mouth,<br>Unpres              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/16/2025 11:11           | 3 days | 7/22/2025     | 2%+                 | <input type="checkbox"/> | <input type="checkbox"/> |
| 004D  | SB-04-GW     | Water  | Multi-Range TPH Gas, Diesel, and<br>Motor Oil | 4               | 2 VOAs w/HCL + 2-<br>aVOAs (multi-range) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/16/2025 11:11           | 3 days | 7/22/2025     | 2%+                 | <input type="checkbox"/> | <input type="checkbox"/> |
| 004E  | SB-04-GW     | Water  | E245.2 (Mercury)                              | 1               | 250mL HDPE w/<br>HNO3                    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/16/2025 11:11           | 3 days | 7/22/2025     | 2%+                 | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | E200.8 (CAM 17)                               |                 |                                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 3 days | 7/22/2025     | 2%+                 | <input type="checkbox"/> | <input type="checkbox"/> |
| 005A  | SB-05-GW     | Water  | E1633 Perfluorinated Compounds                | 3               | (2) 500mL HDPE +<br>(1) 125mL HDPE       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/16/2025 9:36            | 3 days | 7/22/2025     | 2%+                 | <input type="checkbox"/> | <input type="checkbox"/> |
| 005B  | SB-05-GW     | Water  | SW8260D (VOCs)                                | 2               | VOA w/ HCl                               | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/16/2025 9:36            | 3 days | 7/22/2025     | 2%+                 | <input type="checkbox"/> | <input type="checkbox"/> |
| 005C  | SB-05-GW     | Water  | SW8270E (SVOCs)                               | 1               | 1LA Narrow Mouth,<br>Unpres              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/16/2025 9:36            | 3 days | 7/22/2025     | 2%+                 | <input type="checkbox"/> | <input type="checkbox"/> |

**NOTES:** \* STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- ISM prep requires 5 to 10 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 6 to 11 days from sample submission). Due date listed on WO summary will not accurately reflect the time needed for sample preparation.

- Organic extracts are held for 40 days before disposal; Inorganic extract are held for 30 days.

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U\*\* = An unpreserved container was received for a method that suggests a preservation in order to extend hold time for analysis.



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http://www.mcccampbell.com / E-mail: main@mcccampbell.com

## WORK ORDER SUMMARY

**Client Name:** LANGAN  
**Client Contact:** Nelson Pi  
**Contact's Email:** npj@langan.com

**Project:** 770651908; Northtown Campus

**Work Order:** 2507A49

**QC Level:** LEVEL 2

**Date Logged:** 7/17/2025

**Comments**

☐ WaterTrax ☐ CLIP ☐ EDF ☐ Excel ☒ EQulS ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

| LabID | ClientSampID | Matrix | Test Name                                  | Cont./<br>Comp. | Bottle &<br>Preservative             | U**                      | Head<br>Space            | Dry-<br>Weight           | Collection Date<br>& Time | TAT    | Test Due Date | Sediment<br>Content | Hold                     | Sub<br>Out               |
|-------|--------------|--------|--------------------------------------------|-----------------|--------------------------------------|--------------------------|--------------------------|--------------------------|---------------------------|--------|---------------|---------------------|--------------------------|--------------------------|
| 005D  | SB-05-GW     | Water  | Multi-Range TPH Gas, Diesel, and Motor Oil | 4               | 2 VOAs w/HCL + 2-aVOAs (multi-range) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/16/2025 9:36            | 3 days | 7/22/2025     | 2%+                 | <input type="checkbox"/> | <input type="checkbox"/> |
| 005E  | SB-05-GW     | Water  | E245.2 (Mercury)                           | 1               | 250mL HDPE w/ HNO3                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/16/2025 9:36            | 3 days | 7/22/2025     | 2%+                 | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | E200.8 (CAM 17)                            |                 |                                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 3 days | 7/22/2025     | 2%+                 | <input type="checkbox"/> | <input type="checkbox"/> |

**NOTES:** \* STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

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U\*\* = An unpreserved container was received for a method that suggests a preservation in order to extend hold time for analysis.

**LANGAN** **RUSH!** CHAIN OF CUSTODY RECORD

|                                     |                                                                                         |
|-------------------------------------|-----------------------------------------------------------------------------------------|
| <input type="checkbox"/>            | 135 Main Street, Suite 1500, San Francisco, CA 94105 Ph: 415.955.5200/Fax: 415.955.5201 |
| <input checked="" type="checkbox"/> | 1 S Almaden Blvd, Suite 590, San Jose, 95113 Ph: 408.283.3600/Fax: 408.283.3601         |
| <input type="checkbox"/>            | 3320 Data Drive, Suite 350 Rancho Cordova, CA 95670 Ph: 916.476.6790/Fax: 916.476.6792  |

Recorder (Signature Required): Dulce M. Rodriguez Rivera

**Turnaround  
Time  
3-Day TAT**

|                                                          |      |      |                |        |       |       |                               |                                |                  |     |       |  |  |  |  |  |  |  |  |  |  |                     |  |      |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Recorder (Signature Required): Dulce M Rodriguez Rivera. |      |      |                | Matrix |       |       | No. Containers & Preservative |                                |                  |     |       |  |  |  |  |  |  |  |  |  |  | Silica gel clean-up |  | Hold | Remarks |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Field Sample Identification No.                          | Date | Time | Lab Sample No. | Soil   | Water | Other | HCL                           | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> | Ice | Other |  |  |  |  |  |  |  |  |  |  |                     |  |      |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**pH adjusted in Lab** White Cop

White Copy - Original

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COC Number:

0.5 wet  
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## Sample Receipt Checklist

Client Name: Langan  
Project: 770651908; Northtown Campus

Date and Time Received: 7/17/2025 14:40

Date Logged: 7/17/2025

Received by: Valerie Alfaro

Logged by: Valerie Alfaro

WorkOrder No: 2507A49 Matrix: Water  
Carrier: Laurie Moore (MAI Courier)

### Chain of Custody (COC) Information

|                                                         |                                         |                             |                                        |
|---------------------------------------------------------|-----------------------------------------|-----------------------------|----------------------------------------|
| Chain of custody present?                               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                        |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                        |
| Chain of custody agrees with sample labels?             | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                        |
| Sample IDs noted by Client on COC?                      | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                        |
| Date and Time of collection noted by Client on COC?     | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                        |
| Sampler's name noted on COC?                            | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                        |
| COC agrees with Quote?                                  | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| COC quote NOT expired?                                  | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |

### Sample Receipt Information

|                                                    |                                         |                             |                                        |
|----------------------------------------------------|-----------------------------------------|-----------------------------|----------------------------------------|
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles?            | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| Shipping container/cooler in good condition?       | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                        |
| Samples in proper containers/bottles?              | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                        |
| Sample containers intact?                          | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                        |
| Sufficient sample volume for indicated test?       | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                        |

### Sample Preservation and Hold Time (HT) Information

|                                           |                                         |                             |                             |
|-------------------------------------------|-----------------------------------------|-----------------------------|-----------------------------|
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| Samples Received on Ice?                  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                             |

(Ice Type: WET ICE )

|                                                                                        |                                         |                                        |                             |
|----------------------------------------------------------------------------------------|-----------------------------------------|----------------------------------------|-----------------------------|
| Sample/Temp Blank temperature                                                          | Temp: 0.5°C                             | NA <input type="checkbox"/>            |                             |
| ZHS conditional analyses: VOA meets zero headspace requirement (VOCs, TPHg/BTEX, RSK)? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            | NA <input type="checkbox"/> |
| Sample labels checked for correct preservation?                                        | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |                             |
| pH acceptable upon receipt (Metal: <2)?                                                | Yes <input type="checkbox"/>            | No <input checked="" type="checkbox"/> | NA <input type="checkbox"/> |

pH Lot#: HC446507

Lot Expiration: 1/31/2028

### UCMR Samples:

|                                                                                        |                              |                             |                                        |
|----------------------------------------------------------------------------------------|------------------------------|-----------------------------|----------------------------------------|
| pH tested and acceptable upon receipt (200.7: ≤2; 533: 6 - 8; 537.1: 6 - 8)?           | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| Free Chlorine tested and acceptable upon receipt (<0.1mg/L) [not applicable to 200.7]? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |

Comments: Method CAM17MS\_TTLC\_SED for sample 2507A49-001E needs additional preservative in Lab to achieve a pH less than 2; sample will be held for a minimum of 16 additional hours. Method CAM17MS\_TTLC\_SED for sample 2507A49-002E needs additional preservative in Lab to achieve a pH less than 2; sample will be held for a minimum of 16 additional hours. Method CAM17MS\_TTLC\_SED for sample 2507A49-003E needs additional preservative in Lab to achieve a pH less than 2; sample will be held for a minimum of 16 additional



## Sample Receipt Checklist

hours. Method CAM17MS\_TTLC\_SED for sample 2507A49-004E needs additional preservative in Lab to achieve a pH less than 2; sample will be held for a minimum of 16 additional hours. Method CAM17MS\_TTLC\_SED for sample 2507A49-005E needs additional preservative in Lab to achieve a pH less than 2; sample will be held for a minimum of 16 additional hours.



# McC Campbell Analytical, Inc.

"When Quality Counts"

## Analytical Report

**WorkOrder:** 2507B65

**Report Created for:** Langan

1 Almaden Blvd, Suite 590  
San Jose, CA 95113

**Project Contact:** Nelson Pi

**Project P.O.:**

**Project:** 770651908; Northtown Campus

**Project Location:**

**Project Received:** 07/17/2025

Analytical Report reviewed & approved for release on 07/28/2025 by:

Ana Venegas  
Project Manager

*The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current regulatory standards, where applicable, unless otherwise stated.*







## Glossary of Terms & Qualifier Definitions

**Client:** Langan

**WorkOrder:** 2507B65

**Project:** 770651908; Northtown Campus

### Glossary Abbreviation

|                |                                                                                                        |
|----------------|--------------------------------------------------------------------------------------------------------|
| %D             | Serial Dilution Percent Difference                                                                     |
| 95% Interval   | 95% Confident Interval                                                                                 |
| CCV            | Continuing Calibration Verification.                                                                   |
| CCV REC (%)    | % recovery of Continuing Calibration Verification.                                                     |
| CPT            | Consumer Product Testing not NELAP Accredited                                                          |
| DF             | Dilution Factor                                                                                        |
| DI WET         | (DISTLC) Waste Extraction Test using DI water                                                          |
| DISS           | Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)                             |
| DLT            | Dilution Test (Serial Dilution)                                                                        |
| DUP            | Duplicate                                                                                              |
| EDL            | Estimated Detection Limit                                                                              |
| ERS            | External reference sample. Second source calibration verification.                                     |
| ITEF           | International Toxicity Equivalence Factor                                                              |
| LCS            | Laboratory Control Sample                                                                              |
| LCS2           | Second LCS for the batch. Spike level is lower than that for the first LCS; applicable to method 1633. |
| LQL            | Lowest Quantitation Level                                                                              |
| MB             | Method Blank                                                                                           |
| MB IS/SS % Rec | % Recovery of Internal Standard or Surrogate in Method Blank, if applicable                            |
| MB SS % Rec    | % Recovery of Surrogate in Method Blank, if applicable                                                 |
| MDL            | Method Detection Limit <sup>1</sup>                                                                    |
| ML             | Minimum Level of Quantitation                                                                          |
| MS             | Matrix Spike                                                                                           |
| MSD            | Matrix Spike Duplicate                                                                                 |
| NA             | Not Applicable                                                                                         |
| ND             | Not detected at or above the indicated MDL or RL                                                       |
| NR             | Data Not Reported due to matrix interference or insufficient sample amount.                            |
| PDS            | Post Digestion Spike                                                                                   |
| PF             | Prep Factor                                                                                            |
| RD             | Relative Difference                                                                                    |
| RL             | Reporting Limit <sup>2</sup>                                                                           |
| RPD            | Relative Percent Difference                                                                            |
| RRT            | Relative Retention Time                                                                                |
| RSD            | Relative Standard Deviation                                                                            |
| SNR            | Surrogate is diluted out of the calibration range                                                      |

<sup>1</sup> MDL is the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. Definition and Procedure for the Determination of the Method Detection Limit, Revision 2, 40CFR, Part 136, Appendix B, EPA 821-R-16-006, December 2016. Values are based upon our default extraction volume/amount and are subject to change.

<sup>2</sup> RL is the lowest level that can be reliably determined within specified limits of precision and accuracy during routine laboratory operating conditions. (The RL cannot be lower than the lowest calibration standard used in the initial calibration of the instrument and must be greater than the MDL.) Values are based upon our default extraction volume/amount and are subject to change.





## Glossary of Terms & Qualifier Definitions

**Client:** Langan

**WorkOrder:** 2507B65

**Project:** 770651908; Northtown Campus

|            |                                                                                                                                                    |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| SPK Val    | Spike Value                                                                                                                                        |
| SPKRef Val | Spike Reference Value                                                                                                                              |
| SPLP       | Synthetic Precipitation Leachate Procedure                                                                                                         |
| ST         | Sorbent Tube                                                                                                                                       |
| TCLP       | Toxicity Characteristic Leachate Procedure                                                                                                         |
| TEQ        | Toxicity Equivalents                                                                                                                               |
| TNTC       | "Too Numerous to Count;" greater than 250 colonies observed on the plate.                                                                          |
| TZA        | TimeZone Net Adjustment for sample collected outside of MAI's Coordinated Universal Time (UTC). (Adjustment for Daylight Saving is not accounted.) |
| WET (STLC) | Waste Extraction Test (Soluble Threshold Limit Concentration)                                                                                      |

### Analytical Qualifiers

|    |                                                                                                                  |
|----|------------------------------------------------------------------------------------------------------------------|
| B  | Analyte detected in the associated Method Blank at a concentration greater than 1/10 the reported sample result. |
| J  | Result is less than the RL/ML but greater than the MDL. The reported concentration is an estimated value.        |
| a3 | Sample diluted due to high organic content interfering with quantitative/or qualitative analysis.                |
| b1 | Aqueous sample that contains greater than ~1 vol. % sediment                                                     |

### Quality Control Qualifiers

|    |                                                                                                                                       |
|----|---------------------------------------------------------------------------------------------------------------------------------------|
| F1 | MS/MSD recovery and/or RPD is out of acceptance criteria.                                                                             |
| F2 | LCS/LCSD recovery and/or RPD/RSD is out of acceptance criteria.                                                                       |
| F3 | The surrogate standard recovery and/or RPD is outside of acceptance limits.                                                           |
| F5 | LCS/LCSD recovery is outside of acceptance limits; however, the data is acceptable based upon the TNI allowable marginal exceedances. |



## Glossary of Terms & Qualifier Definitions

**Client:** Langan

**WorkOrder:** 2507B65

**Project:** 770651908; Northtown Campus

### PFAS Analytes

|                                                     | <u>Abbreviation</u> | <u>CAS</u>  |
|-----------------------------------------------------|---------------------|-------------|
| 10:2 Fluorotelomer Sulfonic Acid                    | 10:2 FTS            | 120226-60-0 |
| 11-chloroeicosafluoro-3-oxaundecane-1-sulfonic Acid | 11CIPF3OUdS         | 763051-92-9 |
| 2H,2H,3H,3H-Perfluorodecanoic Acid                  | 7:3 FTCA            | 812-70-4    |
| 2H,2H,3H,3H-Perfluorohexanoic Acid                  | 3:3 FTCA            | 356-02-5    |
| 2H,2H,3H,3H-Perfluorooctanoic Acid                  | 5:3 FTCA            | 914637-49-3 |
| 4,8-dioxa-3H-perfluorononanoic Acid                 | ADONA               | 919005-14-4 |
| 4:2 Fluorotelomer Sulfonic Acid                     | 4:2 FTS             | 757124-72-4 |
| 6:2 Fluorotelomer Sulfonic Acid                     | 6:2 FTS             | 27619-97-2  |
| 8:2 Fluorotelomer Sulfonic Acid                     | 8:2 FTS             | 39108-34-4  |
| 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic Acid  | 9CIPF3ONS           | 756426-58-1 |
| Hexafluoropropylene Oxide Dimer Acid                | HFPO-DA             | 13252-13-6  |
| N-Ethyl perfluorooctane sulfonamide                 | EtFOSA              | 4151-50-2   |
| N-ethyl perfluorooctane sulfonamido ethanol         | EtFOSE              | 1691-99-2   |
| N-ethyl perfluorooctanesulfonamidoacetic Acid       | NEtFOSAA            | 2991-50-6   |
| N-Methyl perfluorooctane sulfonamide                | MeFOSA              | 31506-32-8  |
| N-Methyl perfluorooctane sulfonamido ethanol        | MeFOSE              | 24448-09-7  |
| N-methyl perfluorooctanesulfonamidoacetic Acid      | NMeFOSAA            | 2355-31-9   |
| Nonafluoro-3,6-dioxaheptanoic Acid                  | NFDHA               | 151772-58-6 |
| Perfluoro(2-ethoxyethane) sulfonic Acid             | PFEESA              | 113507-82-7 |
| Perfluoro-3-methoxypropanoic Acid                   | PFMPA               | 377-73-1    |
| Perfluoro-4-methoxybutanoic Acid                    | PFMBA               | 863090-89-5 |
| Perfluorobutane sulfonic Acid                       | PFBS                | 375-73-5    |
| Perfluorobutanoic Acid                              | PFBA                | 375-22-4    |
| Perfluorodecane Sulfonic Acid                       | PFDS                | 335-77-3    |
| Perfluorodecanoic Acid                              | PFDA                | 335-76-2    |
| Perfluorododecanoic Acid                            | PFDaA               | 307-55-1    |
| Perfluoroheptane Sulfonic Acid                      | PFHpS               | 375-92-8    |
| Perfluoroheptanoic Acid                             | PFHpA               | 375-85-9    |
| Perfluorohexadecanoic Acid                          | PFHxDA              | 67905-19-5  |
| Perfluorohexane sulfonic Acid                       | PFHxS               | 355-46-4    |
| Perfluorohexanoic Acid                              | PFHxA               | 307-24-4    |
| Perfluorononane Sulfonic Acid                       | PFNS                | 68259-12-1  |
| Perfluorononanoic Acid                              | PFNA                | 375-95-1    |
| Perfluorooctadecanoic Acid                          | PFODA               | 16517-11-6  |
| Perfluorooctane Sulfonamide                         | PFOSA               | 754-91-6    |
| Perfluorooctane Sulfonic Acid                       | PFOS                | 1763-23-1   |
| Perfluorooctanoic Acid                              | PFOA                | 335-67-1    |



## Glossary of Terms & Qualifier Definitions

**Client:** Langan

**WorkOrder:** 2507B65

**Project:** 770651908; Northtown Campus

Perfluoropentane Sulfonic Acid

PFPeS 2706-91-4

Perfluoropentanoic Acid

PFPeA 2706-90-3

Perfluorotetradecanoic Acid

PFTeDA 376-06-7

Perfluorotridecanoic Acid

PFTrDA 72629-94-8

Perfluoroundecanoic Acid

PFUnA 2058-94-8

# Case Narrative

**Client:** Langan  
**Project:** 770651908; Northtown Campus

**Work Order:** 2507B65  
July 28, 2025

Percent Moisture

In accordance with SW-846, 8000, percent moisture is reported as:

$$[\text{Moisture Weight (g)}] / [\text{Sample Wet Weight (g)}] \times 100$$



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/19/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/g-dry

### Perfluorinated Compounds

| Client ID       | Lab ID        | Matrix | Date Collected   |           | Instrument             | Batch ID |
|-----------------|---------------|--------|------------------|-----------|------------------------|----------|
| IDW-1           | 2507B65-001B  | Soil   | 07/16/2025 14:15 |           | LC-MS4 07212025 1633 3 | 321764   |
| <u>Analytes</u> | <u>Result</u> |        | <u>RL</u>        | <u>DF</u> | <u>Date Analyzed</u>   |          |
| 9CIPF3ONS       | ND            |        | 0.25             | 1         | 07/22/2025 02:48       |          |
| 11CIPF3OUdS     | ND            |        | 0.25             | 1         | 07/22/2025 02:48       |          |
| 3:3 FTCA        | ND            |        | 0.25             | 1         | 07/22/2025 02:48       |          |
| 4:2 FTS         | ND            |        | 0.25             | 1         | 07/22/2025 02:48       |          |
| 5:3 FTCA        | ND            |        | 0.25             | 1         | 07/22/2025 02:48       |          |
| 6:2 FTS         | ND            |        | 0.25             | 1         | 07/22/2025 02:48       |          |
| 7:3 FTCA        | ND            |        | 0.25             | 1         | 07/22/2025 02:48       |          |
| 8:2 FTS         | ND            |        | 0.25             | 1         | 07/22/2025 02:48       |          |
| 10:2 FTS        | ND            |        | 0.23             | 1         | 07/22/2025 02:48       |          |
| ADONA           | ND            |        | 0.25             | 1         | 07/22/2025 02:48       |          |
| EtFOSA          | ND            |        | 0.25             | 1         | 07/22/2025 02:48       |          |
| EtFOSE          | ND            |        | 0.25             | 1         | 07/22/2025 02:48       |          |
| HFPO-DA         | ND            |        | 0.25             | 1         | 07/22/2025 02:48       |          |
| MeFOSA          | ND            |        | 0.25             | 1         | 07/22/2025 02:48       |          |
| MeFOSE          | ND            |        | 0.25             | 1         | 07/22/2025 02:48       |          |
| NEtFOSAA        | ND            |        | 0.25             | 1         | 07/22/2025 02:48       |          |
| NFDHA           | ND            |        | 0.25             | 1         | 07/22/2025 02:48       |          |
| NMeFOSAA        | ND            |        | 0.25             | 1         | 07/22/2025 02:48       |          |
| PFBA            | ND            |        | 0.25             | 1         | 07/22/2025 02:48       |          |
| PFBS            | ND            |        | 0.25             | 1         | 07/22/2025 02:48       |          |
| PFDA            | ND            |        | 0.25             | 1         | 07/22/2025 02:48       |          |
| PFDoA           | ND            |        | 0.25             | 1         | 07/22/2025 02:48       |          |
| PFDoS           | ND            |        | 0.25             | 1         | 07/22/2025 02:48       |          |
| PFDS            | ND            |        | 0.25             | 1         | 07/22/2025 02:48       |          |
| PFEESA          | ND            |        | 0.25             | 1         | 07/22/2025 02:48       |          |
| PFHpA           | ND            |        | 0.25             | 1         | 07/22/2025 02:48       |          |
| PFHpS           | ND            |        | 0.25             | 1         | 07/22/2025 02:48       |          |
| PFHxA           | ND            |        | 0.25             | 1         | 07/22/2025 02:48       |          |
| PFHxDA          | ND            |        | 0.25             | 1         | 07/22/2025 02:48       |          |
| PFHxS           | ND            |        | 0.25             | 1         | 07/22/2025 02:48       |          |
| PFMBA           | ND            |        | 0.25             | 1         | 07/22/2025 02:48       |          |
| PFMPA           | ND            |        | 0.25             | 1         | 07/22/2025 02:48       |          |
| PFNA            | ND            |        | 0.25             | 1         | 07/22/2025 02:48       |          |
| PFNS            | ND            |        | 0.25             | 1         | 07/22/2025 02:48       |          |
| PFOA            | ND            |        | 0.25             | 1         | 07/22/2025 02:48       |          |
| PFODA           | ND            |        | 0.25             | 1         | 07/22/2025 02:48       |          |

(Cont.)



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/19/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/g-dry

### Perfluorinated Compounds

| Client ID       | Lab ID        | Matrix | Date Collected   |           | Instrument             | Batch ID |
|-----------------|---------------|--------|------------------|-----------|------------------------|----------|
| IDW-1           | 2507B65-001B  | Soil   | 07/16/2025 14:15 |           | LC-MS4 07212025 1633 3 | 321764   |
| <u>Analytes</u> | <u>Result</u> |        | <u>RL</u>        | <u>DE</u> | <u>Date Analyzed</u>   |          |
| PFOS            | ND            |        | 0.25             | 1         | 07/22/2025 02:48       |          |
| PFOSA           | ND            |        | 0.25             | 1         | 07/22/2025 02:48       |          |
| PFPeA           | ND            |        | 0.25             | 1         | 07/22/2025 02:48       |          |
| PFPeS           | ND            |        | 0.25             | 1         | 07/22/2025 02:48       |          |
| PFTeDA          | ND            |        | 0.25             | 1         | 07/22/2025 02:48       |          |
| PFTeDA          | ND            |        | 0.25             | 1         | 07/22/2025 02:48       |          |
| PFTeDA          | ND            |        | 0.25             | 1         | 07/22/2025 02:48       |          |
| PFTeDA          | ND            |        | 0.25             | 1         | 07/22/2025 02:48       |          |



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/19/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/g-dry

### Perfluorinated Compounds

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument             | Batch ID |
|-----------|--------------|--------|------------------|------------------------|----------|
| IDW-1     | 2507B65-001B | Soil   | 07/16/2025 14:15 | LC-MS4 07212025 1633 3 | 321764   |

| Analytes          | Result         | RL            | DF        | Date Analyzed    |
|-------------------|----------------|---------------|-----------|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | <u>Limits</u> | <u>DF</u> |                  |
| 13C2-4:2 FTS      | 112            | 20-150        | 1         | 07/22/2025 02:48 |
| 13C2-6:2 FTS      | 101            | 20-150        | 1         | 07/22/2025 02:48 |
| 13C2-8:2 FTS      | 125            | 20-150        | 1         | 07/22/2025 02:48 |
| 13C2-PFDoA        | 103            | 20-150        | 1         | 07/22/2025 02:48 |
| 13C2-PFTeDA       | 78             | 20-150        | 1         | 07/22/2025 02:48 |
| 13C3-HFPO-DA      | 104            | 20-150        | 1         | 07/22/2025 02:48 |
| 13C3-PFBS         | 93             | 20-150        | 1         | 07/22/2025 02:48 |
| 13C3-PFHxS        | 104            | 20-150        | 1         | 07/22/2025 02:48 |
| 13C4-PFBA         | 105            | 20-150        | 1         | 07/22/2025 02:48 |
| 13C4-PFHpA        | 111            | 20-150        | 1         | 07/22/2025 02:48 |
| 13C5-PFHxA        | 112            | 20-150        | 1         | 07/22/2025 02:48 |
| 13C5-PFPeA        | 108            | 20-150        | 1         | 07/22/2025 02:48 |
| 13C6-PFDA         | 108            | 20-150        | 1         | 07/22/2025 02:48 |
| 13C7-PFUdA        | 100            | 20-150        | 1         | 07/22/2025 02:48 |
| 13C8-PFOA         | 106            | 20-150        | 1         | 07/22/2025 02:48 |
| 13C8-PFOS         | 113            | 20-150        | 1         | 07/22/2025 02:48 |
| 13C8-PFOSA        | 111            | 20-150        | 1         | 07/22/2025 02:48 |
| 13C9-PFNA         | 105            | 20-150        | 1         | 07/22/2025 02:48 |
| d3-MeFOSAA        | 101            | 20-150        | 1         | 07/22/2025 02:48 |
| d5-EtFOSAA        | 76             | 20-150        | 1         | 07/22/2025 02:48 |
| 13C2-PFHxDA       | 97             | 20-150        | 1         | 07/22/2025 02:48 |
| d3-MeFOSA         | 82             | 20-150        | 1         | 07/22/2025 02:48 |
| d5-EtFOSA         | 80             | 20-150        | 1         | 07/22/2025 02:48 |
| d7N-MeFOSE1       | 90             | 20-150        | 1         | 07/22/2025 02:48 |
| d9N-EtFOSE1       | 93             | 20-150        | 1         | 07/22/2025 02:48 |
| 13C2-10:2 FTS     | 116            | 20-150        | 1         | 07/22/2025 02:48 |

Analyst(s): PJA





## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/L

### Perfluorinated Compounds

| Client ID       | Lab ID        | Matrix | Date Collected      | Instrument             | Batch ID             |
|-----------------|---------------|--------|---------------------|------------------------|----------------------|
| IDW-2           | 2507B65-002A  | Water  | 07/16/2025 14:23    | LC-MS4 07212025 1633 2 | 321791               |
| <u>Analytes</u> | <u>Result</u> |        | <u>RL</u> <u>DE</u> |                        | <u>Date Analyzed</u> |
| 9CIPF3ONS       | ND            |        | 6.2 1               |                        | 07/21/2025 17:39     |
| 11CIPF3OUDS     | ND            |        | 6.2 1               |                        | 07/21/2025 17:39     |
| 3:3 FTCA        | ND            |        | 6.2 1               |                        | 07/21/2025 17:39     |
| 4:2 FTS         | ND            |        | 6.2 1               |                        | 07/21/2025 17:39     |
| 5:3 FTCA        | ND            |        | 6.2 1               |                        | 07/21/2025 17:39     |
| 6:2 FTS         | ND            |        | 6.2 1               |                        | 07/21/2025 17:39     |
| 7:3 FTCA        | ND            |        | 6.2 1               |                        | 07/21/2025 17:39     |
| 8:2 FTS         | ND            |        | 6.2 1               |                        | 07/21/2025 17:39     |
| 10:2 FTS        | ND            |        | 12 2                |                        | 07/22/2025 17:53     |
| ADONA           | ND            |        | 6.2 1               |                        | 07/21/2025 17:39     |
| EtFOSA          | ND            |        | 12 2                |                        | 07/22/2025 17:53     |
| EtFOSE          | ND            |        | 12 2                |                        | 07/22/2025 17:53     |
| HFPO-DA         | ND            |        | 6.2 1               |                        | 07/21/2025 17:39     |
| MeFOSA          | ND            |        | 12 2                |                        | 07/22/2025 17:53     |
| MeFOSE          | ND            |        | 12 2                |                        | 07/22/2025 17:53     |
| NEtFOSAA        | ND            |        | 12 2                |                        | 07/22/2025 17:53     |
| NFDHA           | ND            |        | 6.2 1               |                        | 07/21/2025 17:39     |
| NMeFOSAA        | ND            |        | 6.2 1               |                        | 07/21/2025 17:39     |
| PFBA            | 10            |        | 6.2 1               |                        | 07/21/2025 17:39     |
| PFBS            | ND            |        | 6.2 1               |                        | 07/21/2025 17:39     |
| PFDA            | ND            |        | 6.2 1               |                        | 07/21/2025 17:39     |
| PFDaA           | ND            |        | 6.2 1               |                        | 07/21/2025 17:39     |
| PFDoS           | ND            |        | 12 2                |                        | 07/22/2025 17:53     |
| PFDS            | ND            |        | 12 2                |                        | 07/22/2025 17:53     |
| PFEESA          | ND            |        | 6.2 1               |                        | 07/21/2025 17:39     |
| PFHpA           | ND            |        | 6.2 1               |                        | 07/21/2025 17:39     |
| PFHpS           | ND            |        | 12 2                |                        | 07/22/2025 17:53     |
| PFHxA           | ND            |        | 6.2 1               |                        | 07/21/2025 17:39     |
| PFHxDA          | ND            |        | 6.2 1               |                        | 07/21/2025 17:39     |
| PFHxS           | ND            |        | 6.2 1               |                        | 07/21/2025 17:39     |
| PFMBA           | ND            |        | 6.2 1               |                        | 07/21/2025 17:39     |
| PFMPA           | ND            |        | 6.2 1               |                        | 07/21/2025 17:39     |
| PFNA            | ND            |        | 6.2 1               |                        | 07/21/2025 17:39     |
| PFNS            | ND            |        | 12 2                |                        | 07/22/2025 17:53     |
| PFOA            | ND            |        | 6.2 1               |                        | 07/21/2025 17:39     |
| PFODA           | ND            |        | 6.2 1               |                        | 07/21/2025 17:39     |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/L

### Perfluorinated Compounds

| Client ID       | Lab ID        | Matrix | Date Collected   | Instrument             | Batch ID             |
|-----------------|---------------|--------|------------------|------------------------|----------------------|
| IDW-2           | 2507B65-002A  | Water  | 07/16/2025 14:23 | LC-MS4 07212025 1633 2 | 321791               |
| <u>Analytes</u> | <u>Result</u> |        | <u>RL</u>        | <u>DE</u>              | <u>Date Analyzed</u> |
| PFOS            | ND            |        | 12               | 2                      | 07/22/2025 17:53     |
| PFOSA           | ND            |        | 12               | 2                      | 07/22/2025 17:53     |
| PFPeA           | ND            |        | 6.2              | 1                      | 07/21/2025 17:39     |
| PFPeS           | ND            |        | 6.2              | 1                      | 07/21/2025 17:39     |
| PFTeDA          | ND            |        | 6.2              | 1                      | 07/21/2025 17:39     |
| PFTrDA          | ND            |        | 6.2              | 1                      | 07/21/2025 17:39     |
| PFUnA           | ND            |        | 6.2              | 1                      | 07/21/2025 17:39     |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/L

### Perfluorinated Compounds

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument             | Batch ID |
|-----------|--------------|--------|------------------|------------------------|----------|
| IDW-2     | 2507B65-002A | Water  | 07/16/2025 14:23 | LC-MS4 07212025 1633 2 | 321791   |

| Analytes      | Result  | RL     | DE | Date Analyzed    |
|---------------|---------|--------|----|------------------|
| Surrogates    | REC (%) | Limits | DE |                  |
| 13C2-4:2 FTS  | 112     | 40-200 | 1  | 07/21/2025 17:39 |
| 13C2-6:2 FTS  | 119     | 40-200 | 1  | 07/21/2025 17:39 |
| 13C2-8:2 FTS  | 212     | 40-300 | 1  | 07/21/2025 17:39 |
| 13C2-PFDoA    | 97      | 20-130 | 1  | 07/21/2025 17:39 |
| 13C2-PFTeDA   | 84      | 20-130 | 1  | 07/21/2025 17:39 |
| 13C3-HFPO-DA  | 103     | 40-130 | 1  | 07/21/2025 17:39 |
| 13C3-PFBS     | 100     | 40-135 | 1  | 07/21/2025 17:39 |
| 13C3-PFHxS    | 108     | 40-130 | 1  | 07/21/2025 17:39 |
| 13C4-PFBA     | 105     | 20-130 | 1  | 07/21/2025 17:39 |
| 13C4-PFHpA    | 106     | 40-130 | 1  | 07/21/2025 17:39 |
| 13C5-PFHxA    | 109     | 40-130 | 1  | 07/21/2025 17:39 |
| 13C5-PFPeA    | 106     | 40-130 | 1  | 07/21/2025 17:39 |
| 13C6-PFDA     | 111     | 40-130 | 1  | 07/21/2025 17:39 |
| 13C7-PFUdA    | 106     | 30-130 | 1  | 07/21/2025 17:39 |
| 13C8-PFOA     | 108     | 40-130 | 1  | 07/21/2025 17:39 |
| 13C9-PFNA     | 111     | 40-130 | 1  | 07/21/2025 17:39 |
| d3-MeFOSAA    | 125     | 40-170 | 1  | 07/21/2025 17:39 |
| 13C2-PFHxDA   | 104     | 20-150 | 1  | 07/21/2025 17:39 |
| 13C8-PFOS     | 66      | 40-130 | 2  | 07/22/2025 17:53 |
| 13C8-PFOSA    | 75      | 40-130 | 2  | 07/22/2025 17:53 |
| d5-EtFOSAA    | 64      | 25-135 | 2  | 07/22/2025 17:53 |
| d3-MeFOSA     | 49      | 20-130 | 2  | 07/22/2025 17:53 |
| d5-EtFOSA     | 46      | 20-130 | 2  | 07/22/2025 17:53 |
| d7N-MeFOSE1   | 51      | 20-130 | 2  | 07/22/2025 17:53 |
| d9N-EtFOSE1   | 50      | 20-130 | 2  | 07/22/2025 17:53 |
| 13C2-10:2 FTS | 85      | 20-150 | 2  | 07/22/2025 17:53 |

Analyst(s): PJA

Analytical Comments: b1



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**Extraction Method:** SW3550 B  
**Analytical Method:** SW8081 B  
**Unit:** mg/kg

### Organochlorine Pesticides

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| IDW-1     | 2507B65-001A | Soil   | 07/16/2025 14:15 | GC20 07222520.D | 321726   |

| Analytes                  | Result | RL     | DE | Date Analyzed    |
|---------------------------|--------|--------|----|------------------|
| Aldrin                    | ND     | 0.0010 | 1  | 07/22/2025 14:59 |
| a-BHC                     | ND     | 0.0010 | 1  | 07/22/2025 14:59 |
| b-BHC                     | ND     | 0.0010 | 1  | 07/22/2025 14:59 |
| d-BHC                     | ND     | 0.0010 | 1  | 07/22/2025 14:59 |
| g-BHC                     | ND     | 0.0010 | 1  | 07/22/2025 14:59 |
| Chlordane (Technical)     | ND     | 0.025  | 1  | 07/22/2025 14:59 |
| a-Chlordane               | ND     | 0.0010 | 1  | 07/22/2025 14:59 |
| g-Chlordane               | ND     | 0.0010 | 1  | 07/22/2025 14:59 |
| p,p-DDD                   | ND     | 0.0010 | 1  | 07/22/2025 14:59 |
| p,p-DDE                   | 0.0064 | 0.0010 | 1  | 07/22/2025 14:59 |
| p,p-DDT                   | ND     | 0.0010 | 1  | 07/22/2025 14:59 |
| Dieldrin                  | ND     | 0.0010 | 1  | 07/22/2025 14:59 |
| Endosulfan I              | ND     | 0.0010 | 1  | 07/22/2025 14:59 |
| Endosulfan II             | ND     | 0.0010 | 1  | 07/22/2025 14:59 |
| Endosulfan sulfate        | ND     | 0.0010 | 1  | 07/22/2025 14:59 |
| Endrin                    | ND     | 0.0010 | 1  | 07/22/2025 14:59 |
| Endrin aldehyde           | ND     | 0.0010 | 1  | 07/22/2025 14:59 |
| Endrin ketone             | ND     | 0.0010 | 1  | 07/22/2025 14:59 |
| Heptachlor                | ND     | 0.0010 | 1  | 07/22/2025 14:59 |
| Heptachlor epoxide        | ND     | 0.0010 | 1  | 07/22/2025 14:59 |
| Hexachlorobenzene         | ND     | 0.010  | 1  | 07/22/2025 14:59 |
| Hexachlorocyclopentadiene | ND     | 0.020  | 1  | 07/22/2025 14:59 |
| Methoxychlor              | ND     | 0.0010 | 1  | 07/22/2025 14:59 |
| Toxaphene                 | ND     | 0.20   | 1  | 07/22/2025 14:59 |

| Surrogates         | REC (%) | Limits | DE | Date Analyzed    |
|--------------------|---------|--------|----|------------------|
| Decachlorobiphenyl | 95      | 60-130 | 1  | 07/22/2025 14:59 |

**Analyst(s):** CK



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID                     | Lab ID        | Matrix | Date Collected      | Instrument      | Batch ID             |
|-------------------------------|---------------|--------|---------------------|-----------------|----------------------|
| IDW-1                         | 2507B65-001A  | Soil   | 07/16/2025 14:15    | GC45 07242516.D | 321730               |
| <u>Analytes</u>               | <u>Result</u> |        | <u>RL</u> <u>DE</u> |                 | <u>Date Analyzed</u> |
| Acetone                       | ND            |        | 0.20 1              |                 | 07/24/2025 17:45     |
| tert-Amyl methyl ether (TAME) | ND            |        | 0.0050 1            |                 | 07/24/2025 17:45     |
| Benzene                       | ND            |        | 0.0050 1            |                 | 07/24/2025 17:45     |
| Bromobenzene                  | ND            |        | 0.0050 1            |                 | 07/24/2025 17:45     |
| Bromochloromethane            | ND            |        | 0.0050 1            |                 | 07/24/2025 17:45     |
| Bromodichloromethane          | ND            |        | 0.0050 1            |                 | 07/24/2025 17:45     |
| Bromoform                     | ND            |        | 0.0050 1            |                 | 07/24/2025 17:45     |
| Bromomethane                  | ND            |        | 0.0050 1            |                 | 07/24/2025 17:45     |
| 2-Butanone (MEK)              | ND            |        | 0.10 1              |                 | 07/24/2025 17:45     |
| t-Butyl alcohol (TBA)         | ND            |        | 0.050 1             |                 | 07/24/2025 17:45     |
| n-Butyl benzene               | ND            |        | 0.0050 1            |                 | 07/24/2025 17:45     |
| sec-Butyl benzene             | ND            |        | 0.0050 1            |                 | 07/24/2025 17:45     |
| tert-Butyl benzene            | ND            |        | 0.0050 1            |                 | 07/24/2025 17:45     |
| Carbon Disulfide              | ND            |        | 0.0050 1            |                 | 07/24/2025 17:45     |
| Carbon Tetrachloride          | ND            |        | 0.0050 1            |                 | 07/24/2025 17:45     |
| Chlorobenzene                 | ND            |        | 0.0050 1            |                 | 07/24/2025 17:45     |
| Chloroethane                  | ND            |        | 0.0050 1            |                 | 07/24/2025 17:45     |
| Chloroform                    | ND            |        | 0.0050 1            |                 | 07/24/2025 17:45     |
| Chloromethane                 | ND            |        | 0.0050 1            |                 | 07/24/2025 17:45     |
| 2-Chlorotoluene               | ND            |        | 0.0050 1            |                 | 07/24/2025 17:45     |
| 4-Chlorotoluene               | ND            |        | 0.0050 1            |                 | 07/24/2025 17:45     |
| Dibromochloromethane          | ND            |        | 0.0050 1            |                 | 07/24/2025 17:45     |
| 1,2-Dibromo-3-chloropropane   | ND            |        | 0.00050 1           |                 | 07/24/2025 17:45     |
| 1,2-Dibromoethane (EDB)       | ND            |        | 0.00025 1           |                 | 07/24/2025 17:45     |
| Dibromomethane                | ND            |        | 0.0050 1            |                 | 07/24/2025 17:45     |
| 1,2-Dichlorobenzene           | ND            |        | 0.0050 1            |                 | 07/24/2025 17:45     |
| 1,3-Dichlorobenzene           | ND            |        | 0.0050 1            |                 | 07/24/2025 17:45     |
| 1,4-Dichlorobenzene           | ND            |        | 0.0050 1            |                 | 07/24/2025 17:45     |
| Dichlorodifluoromethane       | ND            |        | 0.0050 1            |                 | 07/24/2025 17:45     |
| 1,1-Dichloroethane            | ND            |        | 0.0050 1            |                 | 07/24/2025 17:45     |
| 1,2-Dichloroethane (1,2-DCA)  | ND            |        | 0.00010 1           |                 | 07/24/2025 17:45     |
| 1,1-Dichloroethene            | ND            |        | 0.0050 1            |                 | 07/24/2025 17:45     |
| cis-1,2-Dichloroethene        | ND            |        | 0.0050 1            |                 | 07/24/2025 17:45     |
| trans-1,2-Dichloroethene      | ND            |        | 0.0050 1            |                 | 07/24/2025 17:45     |
| 1,2-Dichloropropane           | ND            |        | 0.0050 1            |                 | 07/24/2025 17:45     |
| 1,3-Dichloropropane           | ND            |        | 0.0050 1            |                 | 07/24/2025 17:45     |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| IDW-1     | 2507B65-001A | Soil   | 07/16/2025 14:15 | GC45 07242516.D | 321730   |

| Analytes                      | Result | RL      | DE | Date Analyzed    |
|-------------------------------|--------|---------|----|------------------|
| 2,2-Dichloropropane           | ND     | 0.0050  | 1  | 07/24/2025 17:45 |
| 1,1-Dichloropropene           | ND     | 0.0050  | 1  | 07/24/2025 17:45 |
| cis-1,3-Dichloropropene       | ND     | 0.0050  | 1  | 07/24/2025 17:45 |
| trans-1,3-Dichloropropene     | ND     | 0.0050  | 1  | 07/24/2025 17:45 |
| Diisopropyl ether (DIPE)      | ND     | 0.0050  | 1  | 07/24/2025 17:45 |
| Ethylbenzene                  | ND     | 0.0050  | 1  | 07/24/2025 17:45 |
| Ethyl tert-butyl ether (ETBE) | ND     | 0.0050  | 1  | 07/24/2025 17:45 |
| Freon 113                     | ND     | 0.0050  | 1  | 07/24/2025 17:45 |
| Hexachlorobutadiene           | ND     | 0.0050  | 1  | 07/24/2025 17:45 |
| Hexachloroethane              | ND     | 0.0050  | 1  | 07/24/2025 17:45 |
| 2-Hexanone                    | ND     | 0.0050  | 1  | 07/24/2025 17:45 |
| Isopropylbenzene              | ND     | 0.0050  | 1  | 07/24/2025 17:45 |
| 4-Isopropyl toluene           | ND     | 0.0050  | 1  | 07/24/2025 17:45 |
| Methyl-t-butyl ether (MTBE)   | ND     | 0.0050  | 1  | 07/24/2025 17:45 |
| Methylene chloride            | ND     | 0.020   | 1  | 07/24/2025 17:45 |
| 4-Methyl-2-pentanone (MIBK)   | ND     | 0.0050  | 1  | 07/24/2025 17:45 |
| Naphthalene                   | ND     | 0.0050  | 1  | 07/24/2025 17:45 |
| n-Propyl benzene              | ND     | 0.0050  | 1  | 07/24/2025 17:45 |
| Styrene                       | ND     | 0.0050  | 1  | 07/24/2025 17:45 |
| 1,1,1,2-Tetrachloroethane     | ND     | 0.0050  | 1  | 07/24/2025 17:45 |
| 1,1,2,2-Tetrachloroethane     | ND     | 0.0050  | 1  | 07/24/2025 17:45 |
| Tetrachloroethene             | ND     | 0.0050  | 1  | 07/24/2025 17:45 |
| Toluene                       | ND     | 0.0050  | 1  | 07/24/2025 17:45 |
| 1,2,3-Trichlorobenzene        | ND     | 0.0050  | 1  | 07/24/2025 17:45 |
| 1,2,4-Trichlorobenzene        | ND     | 0.0050  | 1  | 07/24/2025 17:45 |
| 1,1,1-Trichloroethane         | ND     | 0.0050  | 1  | 07/24/2025 17:45 |
| 1,1,2-Trichloroethane         | ND     | 0.0050  | 1  | 07/24/2025 17:45 |
| Trichloroethene               | ND     | 0.0050  | 1  | 07/24/2025 17:45 |
| Trichlorofluoromethane        | ND     | 0.0050  | 1  | 07/24/2025 17:45 |
| 1,2,3-Trichloropropane        | ND     | 0.00025 | 1  | 07/24/2025 17:45 |
| 1,2,4-Trimethylbenzene        | ND     | 0.0050  | 1  | 07/24/2025 17:45 |
| 1,3,5-Trimethylbenzene        | ND     | 0.0050  | 1  | 07/24/2025 17:45 |
| Vinyl Chloride                | ND     | 0.00025 | 1  | 07/24/2025 17:45 |
| m,p-Xylene                    | ND     | 0.0050  | 1  | 07/24/2025 17:45 |
| o-Xylene                      | ND     | 0.0050  | 1  | 07/24/2025 17:45 |
| Xylenes, Total                | ND     | 0.0050  | 1  | 07/24/2025 17:45 |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| IDW-1     | 2507B65-001A | Soil   | 07/16/2025 14:15 | GC45 07242516.D | 321730   |

| Analytes             | Result         | RL            | DE        | Date Analyzed    |
|----------------------|----------------|---------------|-----------|------------------|
| <u>Surrogates</u>    | <u>REC (%)</u> | <u>Limits</u> | <u>DE</u> |                  |
| Dibromofluoromethane | 100            | 70-140        | 1         | 07/24/2025 17:45 |
| Toluene-d8           | 106            | 70-140        | 1         | 07/24/2025 17:45 |
| 4-BFB                | 109            | 70-140        | 1         | 07/24/2025 17:45 |
| Benzene-d6           | 109            | 50-140        | 1         | 07/24/2025 17:45 |
| Ethylbenzene-d10     | 114            | 50-140        | 1         | 07/24/2025 17:45 |
| 1,2-DCB-d4           | 84             | 40-140        | 1         | 07/24/2025 17:45 |

Analyst(s): EVA



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** µg/L

### Volatile Organics

| Client ID                     | Lab ID       | Matrix | Date Collected   |                  | Instrument      | Batch ID |
|-------------------------------|--------------|--------|------------------|------------------|-----------------|----------|
| IDW-2                         | 2507B65-002B | Water  | 07/16/2025 14:23 |                  | GC18 07212515.D | 321801   |
| Analytes                      | Result       | RL     | DE               | Date Analyzed    |                 |          |
| Acetone                       | ND           | 40     | 1                | 07/21/2025 17:47 |                 |          |
| tert-Amyl methyl ether (TAME) | ND           | 0.50   | 1                | 07/21/2025 17:47 |                 |          |
| Benzene                       | ND           | 0.20   | 1                | 07/21/2025 17:47 |                 |          |
| Bromobenzene                  | ND           | 0.50   | 1                | 07/21/2025 17:47 |                 |          |
| Bromochloromethane            | ND           | 0.50   | 1                | 07/21/2025 17:47 |                 |          |
| Bromodichloromethane          | 1.5          | 0.050  | 1                | 07/21/2025 17:47 |                 |          |
| Bromoform                     | ND           | 0.50   | 1                | 07/21/2025 17:47 |                 |          |
| Bromomethane                  | ND           | 0.50   | 1                | 07/21/2025 17:47 |                 |          |
| 2-Butanone (MEK)              | 7.6          | 5.0    | 1                | 07/21/2025 17:47 |                 |          |
| t-Butyl alcohol (TBA)         | ND           | 5.0    | 1                | 07/21/2025 17:47 |                 |          |
| n-Butyl benzene               | ND           | 0.50   | 1                | 07/21/2025 17:47 |                 |          |
| sec-Butyl benzene             | ND           | 0.50   | 1                | 07/21/2025 17:47 |                 |          |
| tert-Butyl benzene            | ND           | 0.50   | 1                | 07/21/2025 17:47 |                 |          |
| Carbon Disulfide              | ND           | 0.50   | 1                | 07/21/2025 17:47 |                 |          |
| Carbon Tetrachloride          | ND           | 0.050  | 1                | 07/21/2025 17:47 |                 |          |
| Chlorobenzene                 | ND           | 0.50   | 1                | 07/21/2025 17:47 |                 |          |
| Chloroethane                  | ND           | 0.50   | 1                | 07/21/2025 17:47 |                 |          |
| Chloroform                    | 1.9          | 0.10   | 1                | 07/21/2025 17:47 |                 |          |
| Chloromethane                 | ND           | 0.50   | 1                | 07/21/2025 17:47 |                 |          |
| 2-Chlorotoluene               | ND           | 0.50   | 1                | 07/21/2025 17:47 |                 |          |
| 4-Chlorotoluene               | ND           | 0.50   | 1                | 07/21/2025 17:47 |                 |          |
| Dibromochloromethane          | 1.0          | 0.15   | 1                | 07/21/2025 17:47 |                 |          |
| 1,2-Dibromo-3-chloropropane   | ND           | 0.020  | 1                | 07/21/2025 17:47 |                 |          |
| 1,2-Dibromoethane (EDB)       | ND           | 0.040  | 1                | 07/21/2025 17:47 |                 |          |
| Dibromomethane                | ND           | 0.50   | 1                | 07/21/2025 17:47 |                 |          |
| 1,2-Dichlorobenzene           | ND           | 0.50   | 1                | 07/21/2025 17:47 |                 |          |
| 1,3-Dichlorobenzene           | ND           | 0.50   | 1                | 07/21/2025 17:47 |                 |          |
| 1,4-Dichlorobenzene           | ND           | 0.50   | 1                | 07/21/2025 17:47 |                 |          |
| Dichlorodifluoromethane       | ND           | 0.50   | 1                | 07/21/2025 17:47 |                 |          |
| 1,1-Dichloroethane            | ND           | 0.50   | 1                | 07/21/2025 17:47 |                 |          |
| 1,2-Dichloroethane (1,2-DCA)  | ND           | 0.020  | 1                | 07/21/2025 17:47 |                 |          |
| 1,1-Dichloroethene            | ND           | 0.010  | 1                | 07/21/2025 17:47 |                 |          |
| cis-1,2-Dichloroethene        | ND           | 0.50   | 1                | 07/21/2025 17:47 |                 |          |
| trans-1,2-Dichloroethene      | ND           | 0.50   | 1                | 07/21/2025 17:47 |                 |          |
| 1,2-Dichloropropane           | ND           | 0.10   | 1                | 07/21/2025 17:47 |                 |          |
| 1,3-Dichloropropane           | ND           | 0.50   | 1                | 07/21/2025 17:47 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** µg/L

### Volatile Organics

| Client ID                     | Lab ID       | Matrix | Date Collected   |                  | Instrument      | Batch ID |
|-------------------------------|--------------|--------|------------------|------------------|-----------------|----------|
| IDW-2                         | 2507B65-002B | Water  | 07/16/2025 14:23 |                  | GC18 07212515.D | 321801   |
| Analytes                      | Result       | RL     | DE               | Date Analyzed    |                 |          |
| 2,2-Dichloropropane           | ND           | 0.50   | 1                | 07/21/2025 17:47 |                 |          |
| 1,1-Dichloropropene           | ND           | 0.50   | 1                | 07/21/2025 17:47 |                 |          |
| cis-1,3-Dichloropropene       | ND           | 0.50   | 1                | 07/21/2025 17:47 |                 |          |
| trans-1,3-Dichloropropene     | ND           | 0.50   | 1                | 07/21/2025 17:47 |                 |          |
| Diisopropyl ether (DIPE)      | ND           | 0.50   | 1                | 07/21/2025 17:47 |                 |          |
| Ethylbenzene                  | ND           | 0.50   | 1                | 07/21/2025 17:47 |                 |          |
| Ethyl tert-butyl ether (ETBE) | ND           | 0.50   | 1                | 07/21/2025 17:47 |                 |          |
| Freon 113                     | ND           | 0.50   | 1                | 07/21/2025 17:47 |                 |          |
| Hexachlorobutadiene           | ND           | 0.50   | 1                | 07/21/2025 17:47 |                 |          |
| Hexachloroethane              | ND           | 0.20   | 1                | 07/21/2025 17:47 |                 |          |
| 2-Hexanone                    | ND           | 0.50   | 1                | 07/21/2025 17:47 |                 |          |
| Isopropylbenzene              | ND           | 0.50   | 1                | 07/21/2025 17:47 |                 |          |
| 4-Isopropyl toluene           | ND           | 0.50   | 1                | 07/21/2025 17:47 |                 |          |
| Methyl-t-butyl ether (MTBE)   | ND           | 0.50   | 1                | 07/21/2025 17:47 |                 |          |
| Methylene chloride            | ND           | 2.0    | 1                | 07/21/2025 17:47 |                 |          |
| 4-Methyl-2-pentanone (MIBK)   | ND           | 0.50   | 1                | 07/21/2025 17:47 |                 |          |
| Naphthalene                   | ND           | 0.30   | 1                | 07/21/2025 17:47 |                 |          |
| n-Propyl benzene              | ND           | 0.50   | 1                | 07/21/2025 17:47 |                 |          |
| Styrene                       | ND           | 2.0    | 1                | 07/21/2025 17:47 |                 |          |
| 1,1,1,2-Tetrachloroethane     | ND           | 0.50   | 1                | 07/21/2025 17:47 |                 |          |
| 1,1,2,2-Tetrachloroethane     | ND           | 0.020  | 1                | 07/21/2025 17:47 |                 |          |
| Tetrachloroethene             | ND           | 0.20   | 1                | 07/21/2025 17:47 |                 |          |
| Toluene                       | ND           | 0.50   | 1                | 07/21/2025 17:47 |                 |          |
| 1,2,3-Trichlorobenzene        | ND           | 0.50   | 1                | 07/21/2025 17:47 |                 |          |
| 1,2,4-Trichlorobenzene        | ND           | 0.50   | 1                | 07/21/2025 17:47 |                 |          |
| 1,1,1-Trichloroethane         | ND           | 0.50   | 1                | 07/21/2025 17:47 |                 |          |
| 1,1,2-Trichloroethane         | ND           | 0.10   | 1                | 07/21/2025 17:47 |                 |          |
| Trichloroethene               | ND           | 0.10   | 1                | 07/21/2025 17:47 |                 |          |
| Trichlorofluoromethane        | ND           | 0.50   | 1                | 07/21/2025 17:47 |                 |          |
| 1,2,3-Trichloropropane        | ND           | 0.0050 | 1                | 07/21/2025 17:47 |                 |          |
| 1,2,4-Trimethylbenzene        | ND           | 0.50   | 1                | 07/21/2025 17:47 |                 |          |
| 1,3,5-Trimethylbenzene        | ND           | 0.50   | 1                | 07/21/2025 17:47 |                 |          |
| Vinyl Chloride                | ND           | 0.0050 | 1                | 07/21/2025 17:47 |                 |          |
| m,p-Xylene                    | ND           | 1.0    | 1                | 07/21/2025 17:47 |                 |          |
| o-Xylene                      | ND           | 0.50   | 1                | 07/21/2025 17:47 |                 |          |
| Xylenes, Total                | ND           | 1.0    | 1                | 07/21/2025 17:47 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** µg/L

### Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| IDW-2     | 2507B65-002B | Water  | 07/16/2025 14:23 | GC18 07212515.D | 321801   |

| Analytes             | Result         | RL            | DE        | Date Analyzed    |
|----------------------|----------------|---------------|-----------|------------------|
| <u>Surrogates</u>    | <u>REC (%)</u> | <u>Limits</u> | <u>DE</u> |                  |
| Dibromofluoromethane | 88             | 70-130        | 1         | 07/21/2025 17:47 |
| Toluene-d8           | 96             | 70-130        | 1         | 07/21/2025 17:47 |
| 4-BFB                | 72             | 70-130        | 1         | 07/21/2025 17:47 |

Analyst(s): TW

Analytical Comments: b1



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**Extraction Method:** SW3550B  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics

| Client ID                     | Lab ID        | Matrix | Date Collected      | Instrument      | Batch ID             |
|-------------------------------|---------------|--------|---------------------|-----------------|----------------------|
| IDW-1                         | 2507B65-001A  | Soil   | 07/16/2025 14:15    | GC21 07222524.D | 321891               |
| <u>Analytes</u>               | <u>Result</u> |        | <u>RL</u> <u>DE</u> |                 | <u>Date Analyzed</u> |
| Acenaphthene                  | ND            |        | 0.0065 5            |                 | 07/22/2025 19:42     |
| Acenaphthylene                | ND            |        | 0.0065 5            |                 | 07/22/2025 19:42     |
| Acetochlor                    | ND            |        | 1.2 5               |                 | 07/22/2025 19:42     |
| Anthracene                    | ND            |        | 0.0065 5            |                 | 07/22/2025 19:42     |
| Benzidine                     | ND            |        | 1.2 5               |                 | 07/22/2025 19:42     |
| Benzo (a) anthracene          | ND            |        | 0.062 5             |                 | 07/22/2025 19:42     |
| Benzo (a) pyrene              | ND            |        | 0.0065 5            |                 | 07/22/2025 19:42     |
| Benzo (b) fluoranthene        | ND            |        | 0.012 5             |                 | 07/22/2025 19:42     |
| Benzo (g,h,i) perylene        | ND            |        | 0.012 5             |                 | 07/22/2025 19:42     |
| Benzo (k) fluoranthene        | ND            |        | 0.012 5             |                 | 07/22/2025 19:42     |
| Benzoic Acid                  | ND            |        | 6.2 5               |                 | 07/22/2025 19:42     |
| Benzyl Alcohol                | ND            |        | 6.2 5               |                 | 07/22/2025 19:42     |
| 1,1-Biphenyl                  | ND            |        | 0.025 5             |                 | 07/22/2025 19:42     |
| Bis (2-chloroethoxy) Methane  | ND            |        | 1.2 5               |                 | 07/22/2025 19:42     |
| Bis (2-chloroethyl) Ether     | ND            |        | 0.0065 5            |                 | 07/22/2025 19:42     |
| Bis (2-chloroisopropyl) Ether | ND            |        | 0.012 5             |                 | 07/22/2025 19:42     |
| Bis (2-ethylhexyl) Adipate    | ND            |        | 1.2 5               |                 | 07/22/2025 19:42     |
| Bis (2-ethylhexyl) Phthalate  | ND            |        | 0.31 5              |                 | 07/22/2025 19:42     |
| 4-Bromophenyl Phenyl Ether    | ND            |        | 1.2 5               |                 | 07/22/2025 19:42     |
| Butylbenzyl Phthalate         | ND            |        | 0.31 5              |                 | 07/22/2025 19:42     |
| 4-Chloroaniline               | ND            |        | 0.0065 5            |                 | 07/22/2025 19:42     |
| 4-Chloro-3-methylphenol       | ND            |        | 1.2 5               |                 | 07/22/2025 19:42     |
| 2-Chloronaphthalene           | ND            |        | 1.2 5               |                 | 07/22/2025 19:42     |
| 2-Chlorophenol                | ND            |        | 0.062 5             |                 | 07/22/2025 19:42     |
| 4-Chlorophenyl Phenyl Ether   | ND            |        | 1.2 5               |                 | 07/22/2025 19:42     |
| Chrysene                      | ND            |        | 0.0065 5            |                 | 07/22/2025 19:42     |
| Dibenzo (a,h) anthracene      | ND            |        | 0.012 5             |                 | 07/22/2025 19:42     |
| Dibenzofuran                  | ND            |        | 0.0065 5            |                 | 07/22/2025 19:42     |
| Di-n-butyl Phthalate          | ND            |        | 0.31 5              |                 | 07/22/2025 19:42     |
| 1,2-Dichlorobenzene           | ND            |        | 1.2 5               |                 | 07/22/2025 19:42     |
| 1,3-Dichlorobenzene           | ND            |        | 1.2 5               |                 | 07/22/2025 19:42     |
| 1,4-Dichlorobenzene           | ND            |        | 1.2 5               |                 | 07/22/2025 19:42     |
| 3,3-Dichlorobenzidine         | ND            |        | 0.0065 5            |                 | 07/22/2025 19:42     |
| 2,4-Dichlorophenol            | ND            |        | 0.012 5             |                 | 07/22/2025 19:42     |
| 2,6-Dichlorophenol            | ND            |        | 0.062 5             |                 | 07/22/2025 19:42     |
| Diethyl Phthalate             | ND            |        | 0.062 5             |                 | 07/22/2025 19:42     |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**Extraction Method:** SW3550B  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics

| Client ID                       | Lab ID       | Matrix | Date Collected   |                  | Instrument      | Batch ID |
|---------------------------------|--------------|--------|------------------|------------------|-----------------|----------|
| IDW-1                           | 2507B65-001A | Soil   | 07/16/2025 14:15 |                  | GC21 07222524.D | 321891   |
| Analytes                        | Result       | RL     | DE               | Date Analyzed    |                 |          |
| 2,4-Dimethylphenol              | ND           | 1.2    | 5                | 07/22/2025 19:42 |                 |          |
| Dimethyl Phthalate              | ND           | 0.012  | 5                | 07/22/2025 19:42 |                 |          |
| 4,6-Dinitro-2-methylphenol      | ND           | 6.2    | 5                | 07/22/2025 19:42 |                 |          |
| 2,4-Dinitrophenol               | ND           | 1.2    | 5                | 07/22/2025 19:42 |                 |          |
| 2,4-Dinitrotoluene              | ND           | 0.062  | 5                | 07/22/2025 19:42 |                 |          |
| 2,6-Dinitrotoluene              | ND           | 0.062  | 5                | 07/22/2025 19:42 |                 |          |
| Di-n-octyl Phthalate            | ND           | 3.1    | 5                | 07/22/2025 19:42 |                 |          |
| 1,2-Diphenylhydrazine           | ND           | 1.2    | 5                | 07/22/2025 19:42 |                 |          |
| Fluoranthene                    | ND           | 0.012  | 5                | 07/22/2025 19:42 |                 |          |
| Fluorene                        | ND           | 0.012  | 5                | 07/22/2025 19:42 |                 |          |
| Hexachlorobenzene               | ND           | 0.0065 | 5                | 07/22/2025 19:42 |                 |          |
| Hexachlorobutadiene             | ND           | 0.0065 | 5                | 07/22/2025 19:42 |                 |          |
| Hexachlorocyclopentadiene       | ND           | 6.2    | 5                | 07/22/2025 19:42 |                 |          |
| Hexachloroethane                | ND           | 0.012  | 5                | 07/22/2025 19:42 |                 |          |
| Indeno (1,2,3-cd) pyrene        | ND           | 0.012  | 5                | 07/22/2025 19:42 |                 |          |
| Isophorone                      | ND           | 1.2    | 5                | 07/22/2025 19:42 |                 |          |
| 1-Methylnaphthalene             | ND           | 0.0065 | 5                | 07/22/2025 19:42 |                 |          |
| 2-Methylnaphthalene             | ND           | 0.0065 | 5                | 07/22/2025 19:42 |                 |          |
| 2-Methylphenol (o-Cresol)       | ND           | 1.2    | 5                | 07/22/2025 19:42 |                 |          |
| 3 & 4-Methylphenol (m,p-Cresol) | ND           | 1.2    | 5                | 07/22/2025 19:42 |                 |          |
| Naphthalene                     | ND           | 0.012  | 5                | 07/22/2025 19:42 |                 |          |
| 2-Nitroaniline                  | ND           | 6.2    | 5                | 07/22/2025 19:42 |                 |          |
| 3-Nitroaniline                  | ND           | 6.2    | 5                | 07/22/2025 19:42 |                 |          |
| 4-Nitroaniline                  | ND           | 6.2    | 5                | 07/22/2025 19:42 |                 |          |
| Nitrobenzene                    | ND           | 1.2    | 5                | 07/22/2025 19:42 |                 |          |
| 2-Nitrophenol                   | ND           | 6.2    | 5                | 07/22/2025 19:42 |                 |          |
| 4-Nitrophenol                   | ND           | 6.2    | 5                | 07/22/2025 19:42 |                 |          |
| N-Nitrosodimethylamine          | ND           | 1.2    | 5                | 07/22/2025 19:42 |                 |          |
| N-Nitrosodi-n-propylamine       | ND           | 1.2    | 5                | 07/22/2025 19:42 |                 |          |
| N-Nitrosodiphenylamine          | ND           | 1.2    | 5                | 07/22/2025 19:42 |                 |          |
| Pentachlorophenol               | ND           | 0.31   | 5                | 07/22/2025 19:42 |                 |          |
| Phenanthrene                    | ND           | 0.0065 | 5                | 07/22/2025 19:42 |                 |          |
| Phenol                          | ND           | 0.050  | 5                | 07/22/2025 19:42 |                 |          |
| Pyrene                          | ND           | 0.0065 | 5                | 07/22/2025 19:42 |                 |          |
| Pyridine                        | ND           | 1.2    | 5                | 07/22/2025 19:42 |                 |          |
| 1,2,4-Trichlorobenzene          | ND           | 1.2    | 5                | 07/22/2025 19:42 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**Extraction Method:** SW3550B  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| IDW-1     | 2507B65-001A | Soil   | 07/16/2025 14:15 | GC21 07222524.D | 321891   |

| Analytes                  | Result | RL    | DE | Date Analyzed    |
|---------------------------|--------|-------|----|------------------|
| 2,4,5-Trichlorophenol     | ND     | 0.012 | 5  | 07/22/2025 19:42 |
| 2,4,6-Trichlorophenol     | ND     | 0.012 | 5  | 07/22/2025 19:42 |
| 2,3,4,6-Tetrachlorophenol | ND     | 1.2   | 5  | 07/22/2025 19:42 |

| Surrogates           | REC (%) | Limits | DE | Date Analyzed    |
|----------------------|---------|--------|----|------------------|
| 2-Fluorophenol       | 93      | 60-130 | 5  | 07/22/2025 19:42 |
| Phenol-d5            | 91      | 50-130 | 5  | 07/22/2025 19:42 |
| Nitrobenzene-d5      | 100     | 60-130 | 5  | 07/22/2025 19:42 |
| 2-Fluorobiphenyl     | 74      | 60-130 | 5  | 07/22/2025 19:42 |
| 2,4,6-Tribromophenol | 68      | 50-130 | 5  | 07/22/2025 19:42 |
| 4-Terphenyl-d14      | 70      | 50-130 | 5  | 07/22/2025 19:42 |

**Analyst(s):** LAT

**Analytical Comments:** a3



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**Extraction Method:** E625  
**Analytical Method:** SW8270E  
**Unit:** µg/L

### Semi-Volatile Organics

| Client ID                     | Lab ID       | Matrix | Date Collected   |                  | Instrument      | Batch ID |
|-------------------------------|--------------|--------|------------------|------------------|-----------------|----------|
| IDW-2                         | 2507B65-002E | Water  | 07/16/2025 14:23 |                  | GC21 07222521.D | 321775   |
| Analytes                      | Result       | RL     | DE               | Date Analyzed    |                 |          |
| Acenaphthene                  | ND           | 0.024  | 5                | 07/22/2025 18:19 |                 |          |
| Acenaphthylene                | ND           | 0.024  | 5                | 07/22/2025 18:19 |                 |          |
| Acetochlor                    | ND           | 4.7    | 5                | 07/22/2025 18:19 |                 |          |
| Anthracene                    | ND           | 0.024  | 5                | 07/22/2025 18:19 |                 |          |
| Benzidine                     | ND           | 24     | 5                | 07/22/2025 18:19 |                 |          |
| Benzo (a) anthracene          | ND           | 0.24   | 5                | 07/22/2025 18:19 |                 |          |
| Benzo (a) pyrene              | ND           | 0.024  | 5                | 07/22/2025 18:19 |                 |          |
| Benzo (b) fluoranthene        | ND           | 0.047  | 5                | 07/22/2025 18:19 |                 |          |
| Benzo (g,h,i) perylene        | ND           | 0.047  | 5                | 07/22/2025 18:19 |                 |          |
| Benzo (k) fluoranthene        | ND           | 0.047  | 5                | 07/22/2025 18:19 |                 |          |
| Benzoic Acid                  | ND           | 24     | 5                | 07/22/2025 18:19 |                 |          |
| Benzyl Alcohol                | ND           | 24     | 5                | 07/22/2025 18:19 |                 |          |
| 1,1-Biphenyl                  | ND           | 0.095  | 5                | 07/22/2025 18:19 |                 |          |
| Bis (2-chloroethoxy) Methane  | ND           | 4.7    | 5                | 07/22/2025 18:19 |                 |          |
| Bis (2-chloroethyl) Ether     | ND           | 0.024  | 5                | 07/22/2025 18:19 |                 |          |
| Bis (2-chloroisopropyl) Ether | ND           | 0.047  | 5                | 07/22/2025 18:19 |                 |          |
| Bis (2-ethylhexyl) Adipate    | ND           | 4.7    | 5                | 07/22/2025 18:19 |                 |          |
| Bis (2-ethylhexyl) Phthalate  | ND           | 1.2    | 5                | 07/22/2025 18:19 |                 |          |
| 4-Bromophenyl Phenyl Ether    | ND           | 4.7    | 5                | 07/22/2025 18:19 |                 |          |
| Butylbenzyl Phthalate         | ND           | 1.2    | 5                | 07/22/2025 18:19 |                 |          |
| 4-Chloroaniline               | ND           | 0.024  | 5                | 07/22/2025 18:19 |                 |          |
| 4-Chloro-3-methylphenol       | ND           | 4.7    | 5                | 07/22/2025 18:19 |                 |          |
| 2-Chloronaphthalene           | ND           | 4.7    | 5                | 07/22/2025 18:19 |                 |          |
| 2-Chlorophenol                | ND           | 0.24   | 5                | 07/22/2025 18:19 |                 |          |
| 4-Chlorophenyl Phenyl Ether   | ND           | 4.7    | 5                | 07/22/2025 18:19 |                 |          |
| Chrysene                      | ND           | 0.024  | 5                | 07/22/2025 18:19 |                 |          |
| Dibenzo (a,h) anthracene      | ND           | 0.047  | 5                | 07/22/2025 18:19 |                 |          |
| Dibenzofuran                  | ND           | 0.024  | 5                | 07/22/2025 18:19 |                 |          |
| Di-n-butyl Phthalate          | ND           | 1.2    | 5                | 07/22/2025 18:19 |                 |          |
| 1,2-Dichlorobenzene           | ND           | 4.7    | 5                | 07/22/2025 18:19 |                 |          |
| 1,3-Dichlorobenzene           | ND           | 4.7    | 5                | 07/22/2025 18:19 |                 |          |
| 1,4-Dichlorobenzene           | ND           | 4.7    | 5                | 07/22/2025 18:19 |                 |          |
| 3,3-Dichlorobenzidine         | ND           | 0.047  | 5                | 07/22/2025 18:19 |                 |          |
| 2,4-Dichlorophenol            | ND           | 0.047  | 5                | 07/22/2025 18:19 |                 |          |
| 2,6-Dichlorophenol            | ND           | 0.24   | 5                | 07/22/2025 18:19 |                 |          |
| Diethyl Phthalate             | 0.36         | 0.24   | 5                | 07/22/2025 18:19 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**Extraction Method:** E625  
**Analytical Method:** SW8270E  
**Unit:** µg/L

### Semi-Volatile Organics

| Client ID                       | Lab ID       | Matrix | Date Collected   |                  | Instrument      | Batch ID |
|---------------------------------|--------------|--------|------------------|------------------|-----------------|----------|
| IDW-2                           | 2507B65-002E | Water  | 07/16/2025 14:23 |                  | GC21 07222521.D | 321775   |
| Analytes                        | Result       | RL     | DE               | Date Analyzed    |                 |          |
| 2,4-Dimethylphenol              | ND           | 4.7    | 5                | 07/22/2025 18:19 |                 |          |
| Dimethyl Phthalate              | 0.16         | 0.047  | 5                | 07/22/2025 18:19 |                 |          |
| 4,6-Dinitro-2-methylphenol      | ND           | 24     | 5                | 07/22/2025 18:19 |                 |          |
| 2,4-Dinitrophenol               | ND           | 4.7    | 5                | 07/22/2025 18:19 |                 |          |
| 2,4-Dinitrotoluene              | ND           | 0.24   | 5                | 07/22/2025 18:19 |                 |          |
| 2,6-Dinitrotoluene              | ND           | 0.24   | 5                | 07/22/2025 18:19 |                 |          |
| Di-n-octyl Phthalate            | ND           | 12     | 5                | 07/22/2025 18:19 |                 |          |
| 1,2-Diphenylhydrazine           | ND           | 4.7    | 5                | 07/22/2025 18:19 |                 |          |
| Fluoranthene                    | ND           | 0.047  | 5                | 07/22/2025 18:19 |                 |          |
| Fluorene                        | ND           | 0.047  | 5                | 07/22/2025 18:19 |                 |          |
| Hexachlorobenzene               | ND           | 0.024  | 5                | 07/22/2025 18:19 |                 |          |
| Hexachlorobutadiene             | ND           | 0.024  | 5                | 07/22/2025 18:19 |                 |          |
| Hexachlorocyclopentadiene       | ND           | 24     | 5                | 07/22/2025 18:19 |                 |          |
| Hexachloroethane                | ND           | 0.047  | 5                | 07/22/2025 18:19 |                 |          |
| Indeno (1,2,3-cd) pyrene        | ND           | 0.047  | 5                | 07/22/2025 18:19 |                 |          |
| Isophorone                      | ND           | 4.7    | 5                | 07/22/2025 18:19 |                 |          |
| 1-Methylnaphthalene             | ND           | 0.024  | 5                | 07/22/2025 18:19 |                 |          |
| 2-Methylnaphthalene             | ND           | 0.024  | 5                | 07/22/2025 18:19 |                 |          |
| 2-Methylphenol (o-Cresol)       | ND           | 4.7    | 5                | 07/22/2025 18:19 |                 |          |
| 3 & 4-Methylphenol (m,p-Cresol) | ND           | 4.7    | 5                | 07/22/2025 18:19 |                 |          |
| Naphthalene                     | ND           | 0.047  | 5                | 07/22/2025 18:19 |                 |          |
| 2-Nitroaniline                  | ND           | 24     | 5                | 07/22/2025 18:19 |                 |          |
| 3-Nitroaniline                  | ND           | 24     | 5                | 07/22/2025 18:19 |                 |          |
| 4-Nitroaniline                  | ND           | 24     | 5                | 07/22/2025 18:19 |                 |          |
| Nitrobenzene                    | ND           | 4.7    | 5                | 07/22/2025 18:19 |                 |          |
| 2-Nitrophenol                   | ND           | 24     | 5                | 07/22/2025 18:19 |                 |          |
| 4-Nitrophenol                   | ND           | 24     | 5                | 07/22/2025 18:19 |                 |          |
| N-Nitrosodiphenylamine          | ND           | 4.7    | 5                | 07/22/2025 18:19 |                 |          |
| N-Nitrosodi-n-propylamine       | ND           | 4.7    | 5                | 07/22/2025 18:19 |                 |          |
| Pentachlorophenol               | ND           | 1.2    | 5                | 07/22/2025 18:19 |                 |          |
| Phenanthrene                    | ND           | 0.024  | 5                | 07/22/2025 18:19 |                 |          |
| Phenol                          | ND           | 0.19   | 5                | 07/22/2025 18:19 |                 |          |
| Pyrene                          | ND           | 0.024  | 5                | 07/22/2025 18:19 |                 |          |
| Pyridine                        | ND           | 4.7    | 5                | 07/22/2025 18:19 |                 |          |
| 1,2,4-Trichlorobenzene          | ND           | 4.7    | 5                | 07/22/2025 18:19 |                 |          |
| 2,4,5-Trichlorophenol           | ND           | 0.047  | 5                | 07/22/2025 18:19 |                 |          |

(Cont.)



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**Extraction Method:** E625  
**Analytical Method:** SW8270E  
**Unit:** µg/L

### Semi-Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| IDW-2     | 2507B65-002E | Water  | 07/16/2025 14:23 | GC21 07222521.D | 321775   |

| Analytes                  | Result | RL    | DE | Date Analyzed    |
|---------------------------|--------|-------|----|------------------|
| 2,4,6-Trichlorophenol     | ND     | 0.047 | 5  | 07/22/2025 18:19 |
| N-Nitrosodimethylamine    | ND     | 4.7   | 5  | 07/22/2025 18:19 |
| 2,3,4,6-Tetrachlorophenol | ND     | 4.7   | 5  | 07/22/2025 18:19 |

| Surrogates           | REC (%) | Limits | DE | Date Analyzed    |
|----------------------|---------|--------|----|------------------|
| 2-Fluorophenol       | 32      | 30-130 | 5  | 07/22/2025 18:19 |
| Phenol-d5            | 21      | 20-130 | 5  | 07/22/2025 18:19 |
| Nitrobenzene-d5      | 70      | 60-130 | 5  | 07/22/2025 18:19 |
| 2-Fluorobiphenyl     | 58      | 50-130 | 5  | 07/22/2025 18:19 |
| 2,4,6-Tribromophenol | 73      | 60-140 | 5  | 07/22/2025 18:19 |
| 4-Terphenyl-d14      | 49      | 40-130 | 5  | 07/22/2025 18:19 |

**Analyst(s):** LAT

**Analytical Comments:** b1





## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**Extraction Method:** SW3050 B  
**Analytical Method:** SW6020  
**Unit:** mg/Kg

### CAM / CCR 17 Metals

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument        | Batch ID |
|-----------|--------------|--------|------------------|-------------------|----------|
| IDW-1     | 2507B65-001A | Soil   | 07/16/2025 14:15 | ICP-MS4 130SMPL.d | 321742   |

| Analytes   | Result | RL   | DE | Date Analyzed    |
|------------|--------|------|----|------------------|
| Antimony   | 0.60   | 0.50 | 1  | 07/22/2025 11:53 |
| Arsenic    | 9.2    | 0.50 | 1  | 07/22/2025 11:53 |
| Barium     | 150    | 5.0  | 1  | 07/22/2025 11:53 |
| Beryllium  | 0.58   | 0.50 | 1  | 07/22/2025 11:53 |
| Cadmium    | ND     | 0.50 | 1  | 07/22/2025 11:53 |
| Chromium   | 72     | 0.50 | 1  | 07/22/2025 11:53 |
| Cobalt     | 13     | 0.50 | 1  | 07/22/2025 11:53 |
| Copper     | 30     | 0.50 | 1  | 07/22/2025 11:53 |
| Lead       | 6.9    | 0.50 | 1  | 07/22/2025 11:53 |
| Molybdenum | 0.85   | 0.50 | 1  | 07/22/2025 11:53 |
| Nickel     | 88     | 0.50 | 1  | 07/22/2025 11:53 |
| Selenium   | ND     | 0.50 | 1  | 07/22/2025 11:53 |
| Silver     | ND     | 0.50 | 1  | 07/22/2025 11:53 |
| Thallium   | ND     | 0.50 | 1  | 07/22/2025 11:53 |
| Vanadium   | 65     | 0.50 | 1  | 07/22/2025 11:53 |
| Zinc       | 59     | 5.0  | 1  | 07/22/2025 11:53 |

| Surrogates | REC (%) | Limits | DE | Date Analyzed    |
|------------|---------|--------|----|------------------|
| Terbium    | 108     | 70-130 | 1  | 07/22/2025 11:53 |

Analyst(s): WV



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**Extraction Method:** E200.8  
**Analytical Method:** E200.8  
**Unit:** µg/L

### CAM / CCR 17 Metals (>1% Sediment Content)

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument        | Batch ID |
|-----------|--------------|--------|------------------|-------------------|----------|
| IDW-2     | 2507B65-002D | Water  | 07/16/2025 14:23 | ICP-MS4 106SMPL.d | 321723   |

| Analytes   | Result | Qualifiers | RL   | DE | Date Analyzed    |
|------------|--------|------------|------|----|------------------|
| Antimony   | ND     |            | 2.5  | 1  | 07/21/2025 14:33 |
| Arsenic    | 2.8    |            | 2.5  | 1  | 07/21/2025 14:33 |
| Barium     | 96     |            | 25   | 1  | 07/21/2025 14:33 |
| Beryllium  | ND     |            | 2.5  | 1  | 07/21/2025 14:33 |
| Cadmium    | ND     |            | 2.5  | 1  | 07/21/2025 14:33 |
| Chromium   | 23     |            | 2.5  | 1  | 07/21/2025 14:33 |
| Cobalt     | 4.6    |            | 2.5  | 1  | 07/21/2025 14:33 |
| Copper     | 12     |            | 2.5  | 1  | 07/21/2025 14:33 |
| Lead       | 2.7    |            | 2.5  | 1  | 07/21/2025 14:33 |
| Mercury    | ND     |            | 0.25 | 1  | 07/21/2025 14:33 |
| Molybdenum | 6.8    |            | 2.5  | 1  | 07/21/2025 14:33 |
| Nickel     | 27     |            | 2.5  | 1  | 07/21/2025 14:33 |
| Selenium   | ND     |            | 2.5  | 1  | 07/21/2025 14:33 |
| Silver     | ND     |            | 2.5  | 1  | 07/21/2025 14:33 |
| Thallium   | ND     |            | 2.5  | 1  | 07/21/2025 14:33 |
| Vanadium   | 23     |            | 2.5  | 1  | 07/21/2025 14:33 |
| Zinc       | 54     | B          | 25   | 1  | 07/21/2025 14:33 |

| Surrogates | REC (%) | Limits | DE |                  |
|------------|---------|--------|----|------------------|
| Terbium    | 103     | 70-130 | 1  | 07/21/2025 14:33 |

**Analyst(s):** MIG

**Analytical Comments:** b1



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**Extraction Method:** SW7471 B  
**Analytical Method:** SW7471 B  
**Unit:** mg/Kg

### Mercury by Cold Vapor Atomic Absorption

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| IDW-1     | 2507B65-001A | Soil   | 07/16/2025 14:15 | AA1 _64    | 321718   |

| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>DE</u> | <u>Date Analyzed</u> |
|-----------------|---------------|-----------|-----------|----------------------|
| Mercury         | 0.21          | 0.017     | 1         | 07/22/2025 18:05     |

Analyst(s): MJA



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**Extraction Method:** E245.2  
**Analytical Method:** E245.2  
**Unit:** µg/L

### Mercury by Cold Vapor Atomic Absorption

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| IDW-2     | 2507B65-002D | Water  | 07/16/2025 14:23 | AA1 _47    | 321813   |

| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>DE</u> | <u>Date Analyzed</u> |
|-----------------|---------------|-----------|-----------|----------------------|
| Mercury         | ND            | 0.20      | 1         | 07/22/2025 13:20     |

Analyst(s): MJA

Analytical Comments: b1



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/23/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**Extraction Method:** ASTM D2216-05  
**Analytical Method:** SW8000  
**Unit:** wet wt%

### Percent Moisture

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| IDW-1     | 2507B65-001B | Soil   | 07/16/2025 14:15 | WetChem    | 322025   |

| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>Date Analyzed</u> |
|-----------------|---------------|-----------|----------------------|
| % Moisture      | 18.9          | 0.100     | 07/23/2025 14:51     |

Analyst(s): ACH



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**Extraction Method:** SW3550 B  
**Analytical Method:** SW8015 B  
**Unit:** mg/Kg

### Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| IDW-1     | 2507B65-001A | Soil   | 07/16/2025 14:15 | GC6B 07222545.D | 321736   |

| Analytes                | Result | RL  | DE | Date Analyzed    |
|-------------------------|--------|-----|----|------------------|
| TPH-Diesel (C10-C23)    | ND     | 2.0 | 1  | 07/23/2025 00:16 |
| TPH-Motor Oil (C18-C36) | ND     | 10  | 1  | 07/23/2025 00:16 |

| Surrogates | REC (%) | Limits | DE | Date Analyzed    |
|------------|---------|--------|----|------------------|
| C9         | 105     | 69-160 | 1  | 07/23/2025 00:16 |

**Analyst(s):** JNG



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**Extraction Method:** SW3510 C  
**Analytical Method:** SW8015 B  
**Unit:** µg/L

### Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| IDW-2     | 2507B65-002C | Water  | 07/16/2025 14:23 | GC6B 07232529.D | 321741   |

| Analytes                | Result | RL  | DE | Date Analyzed    |
|-------------------------|--------|-----|----|------------------|
| TPH-Diesel (C10-C23)    | ND     | 100 | 1  | 07/23/2025 18:39 |
| TPH-Motor Oil (C18-C36) | ND     | 500 | 1  | 07/23/2025 18:39 |

| Surrogates | REC (%) | Limits | DE | Date Analyzed    |
|------------|---------|--------|----|------------------|
| C9         | 117     | 60-138 | 1  | 07/23/2025 18:39 |

**Analyst(s):** DGA

**Analytical Comments:** b1



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**Extraction Method:** SW5030 B  
**Analytical Method:** SW8015 B  
**Unit:** mg/Kg

### Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument     | Batch ID |
|-----------|--------------|--------|------------------|----------------|----------|
| IDW-1     | 2507B65-001A | Soil   | 07/16/2025 14:15 | GC7 07242530.D | 321737   |

| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>DE</u> | <u>Date Analyzed</u> |
|-----------------|---------------|-----------|-----------|----------------------|
| TPH(g) (C6-C12) | ND            | 1.0       | 1         | 07/24/2025 21:43     |

| <u>Surrogates</u> | <u>REC (%)</u> | <u>Limits</u> | <u>DE</u> |                  |
|-------------------|----------------|---------------|-----------|------------------|
| 2-Fluorotoluene   | 80             | 60-140        | 1         | 07/24/2025 21:43 |

Analyst(s): IA





## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**Extraction Method:** SW5030 B  
**Analytical Method:** SW8015 B  
**Unit:** µg/L

### Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| IDW-2     | 2507B65-002C | Water  | 07/16/2025 14:23 | GC12 07222519.D | 321971   |

| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>DE</u> | <u>Date Analyzed</u> |
|-----------------|---------------|-----------|-----------|----------------------|
| TPH(g) (C6-C12) | ND            | 50        | 1         | 07/22/2025 21:40     |

| <u>Surrogates</u> | <u>REC (%)</u> | <u>Limits</u> | <u>DE</u> |                  |
|-------------------|----------------|---------------|-----------|------------------|
| aaa-TFT           | 102            | 60-140        | 1         | 07/22/2025 21:40 |

Analyst(s): IA

Analytical Comments: b1



## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/19/2025  
**Date Analyzed:** 07/21/2025 - 07/22/2025  
**Instrument:** LC-MS4  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**BatchID:** 321764  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/g  
**Sample ID:** MB/LCS/LCSD-321764  
LCS2-321764

### QC Summary Report for E1633 Draft 3

| Analyte     | MB Result | MDL   | RL   | SPK Val | MB IS/SS %REC | MB IS/SS Limits |
|-------------|-----------|-------|------|---------|---------------|-----------------|
| 9CIPF3ONS   | ND        | 0.026 | 0.20 | -       | -             | -               |
| 11CIPF3OUdS | ND        | 0.047 | 0.20 | -       | -             | -               |
| 3:3 FTCA    | ND        | 0.063 | 0.20 | -       | -             | -               |
| 4:2 FTS     | ND        | 0.069 | 0.20 | -       | -             | -               |
| 5:3 FTCA    | ND        | 0.056 | 0.20 | -       | -             | -               |
| 6:2 FTS     | ND        | 0.068 | 0.20 | -       | -             | -               |
| 7:3 FTCA    | ND        | 0.040 | 0.20 | -       | -             | -               |
| 8:2 FTS     | ND        | 0.043 | 0.20 | -       | -             | -               |
| 10:2 FTS    | ND        | 0.052 | 0.19 | -       | -             | -               |
| ADONA       | ND        | 0.025 | 0.20 | -       | -             | -               |
| EtFOSA      | ND        | 0.039 | 0.20 | -       | -             | -               |
| EtFOSE      | ND        | 0.16  | 0.20 | -       | -             | -               |
| HFPO-DA     | ND        | 0.058 | 0.20 | -       | -             | -               |
| MeFOSA      | ND        | 0.037 | 0.20 | -       | -             | -               |
| MeFOSE      | ND        | 0.034 | 0.20 | -       | -             | -               |
| NEtFOSAA    | ND        | 0.032 | 0.20 | -       | -             | -               |
| NFDHA       | ND        | 0.045 | 0.20 | -       | -             | -               |
| NMeFOSAA    | ND        | 0.031 | 0.20 | -       | -             | -               |
| PFBA        | ND        | 0.069 | 0.20 | -       | -             | -               |
| PFBS        | ND        | 0.044 | 0.20 | -       | -             | -               |
| PFDA        | ND        | 0.024 | 0.20 | -       | -             | -               |
| PFDaA       | ND        | 0.041 | 0.20 | -       | -             | -               |
| PFDoS       | ND        | 0.036 | 0.20 | -       | -             | -               |
| PFDS        | ND        | 0.023 | 0.20 | -       | -             | -               |
| PFEESA      | ND        | 0.027 | 0.20 | -       | -             | -               |
| PFHpA       | ND        | 0.055 | 0.20 | -       | -             | -               |
| PFHpS       | 0.024,J   | 0.024 | 0.20 | -       | -             | -               |
| PFHxA       | ND        | 0.046 | 0.20 | -       | -             | -               |
| PFHxDA      | ND        | 0.046 | 0.20 | -       | -             | -               |
| PFHxS       | ND        | 0.045 | 0.20 | -       | -             | -               |
| PFMBA       | ND        | 0.022 | 0.20 | -       | -             | -               |
| PFMPA       | ND        | 0.019 | 0.20 | -       | -             | -               |
| PFNA        | ND        | 0.035 | 0.20 | -       | -             | -               |
| PFNS        | ND        | 0.036 | 0.20 | -       | -             | -               |
| PFOA        | ND        | 0.058 | 0.20 | -       | -             | -               |
| PFODA       | ND        | 0.14  | 0.20 | -       | -             | -               |
| PFOS        | 0.086,J   | 0.080 | 0.20 | -       | -             | -               |

(Cont.)



## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/19/2025  
**Date Analyzed:** 07/21/2025 - 07/22/2025  
**Instrument:** LC-MS4  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**BatchID:** 321764  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/g  
**Sample ID:** MB/LCS/LCSD-321764  
LCS2-321764

### QC Summary Report for E1633 Draft 3

| Analyte                   | MB Result | MDL   | RL   | SPK Val | MB IS/SS %REC | MB IS/SS Limits |
|---------------------------|-----------|-------|------|---------|---------------|-----------------|
| PFOSA                     | ND        | 0.12  | 0.20 | -       | -             | -               |
| PFPeA                     | ND        | 0.028 | 0.20 | -       | -             | -               |
| PFPeS                     | 0.032,J   | 0.031 | 0.20 | -       | -             | -               |
| PFTeDA                    | ND        | 0.028 | 0.20 | -       | -             | -               |
| PFTrDA                    | ND        | 0.074 | 0.20 | -       | -             | -               |
| PFUnA                     | ND        | 0.042 | 0.20 | -       | -             | -               |
| <b>Surrogate Recovery</b> |           |       |      |         |               |                 |
| 13C2-4:2 FTS              | 4.8       |       |      | 4.69    | 103           | 20-150          |
| 13C2-6:2 FTS              | 4.6       |       |      | 4.755   | 97            | 20-150          |
| 13C2-8:2 FTS              | 4.9       |       |      | 4.8     | 102           | 20-150          |
| 13C2-PFDoA                | 1.1       |       |      | 1.25    | 91            | 20-150          |
| 13C2-PFTeDA               | 0.89      |       |      | 1.25    | 71            | 20-150          |
| 13C3-HFPO-DA              | 11        |       |      | 10      | 108           | 20-150          |
| 13C3-PFBS                 | 2.2       |       |      | 2.33    | 93            | 20-150          |
| 13C3-PFHxS                | 2.3       |       |      | 2.37    | 98            | 20-150          |
| 13C4-PFBA                 | 10        |       |      | 10      | 102           | 20-150          |
| 13C4-PFHpA                | 2.7       |       |      | 2.5     | 108           | 20-150          |
| 13C5-PFHxA                | 2.8       |       |      | 2.5     | 113           | 20-150          |
| 13C5-PFPeA                | 5.2       |       |      | 5       | 104           | 20-150          |
| 13C6-PFDA                 | 1.3       |       |      | 1.25    | 105           | 20-150          |
| 13C7-PFUdA                | 1.2       |       |      | 1.25    | 94            | 20-150          |
| 13C8-PFOA                 | 2.5       |       |      | 2.5     | 100           | 20-150          |
| 13C8-PFOS                 | 2.4       |       |      | 2.395   | 100           | 20-150          |
| 13C8-PFOSA                | 2.8       |       |      | 2.5     | 112           | 20-150          |
| 13C9-PFNA                 | 1.2       |       |      | 1.25    | 97            | 20-150          |
| d3-MeFOSAA                | 5.2       |       |      | 5       | 105           | 20-150          |
| d5-EtFOSAA                | 4.2       |       |      | 5       | 84            | 20-150          |
| 13C2-PFHxDA               | 4.4       |       |      | 5       | 88            | 20-150          |
| d3-MeFOSA                 | 2.1       |       |      | 2.5     | 84            | 20-150          |
| d5-EtFOSA                 | 2.1       |       |      | 2.5     | 83            | 20-150          |
| d7N-MeFOSE1               | 20        |       |      | 25      | 81            | 20-150          |
| d9N-EtFOSE1               | 21        |       |      | 25      | 84            | 20-150          |
| 13C2-10:2 FTS             | 8.4       |       |      | 9.66    | 87            | 20-150          |

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/19/2025  
**Date Analyzed:** 07/21/2025 - 07/22/2025  
**Instrument:** LC-MS4  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**BatchID:** 321764  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/g  
**Sample ID:** MB/LCS/LCSD-321764  
LCS2-321764

### QC Summary Report for E1633 Draft 3

| Analyte     | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD    | RPD Limit |
|-------------|------------|-------------|---------|----------|-----------|-----------------|--------|-----------|
| 9CIPF3ONS   | 2.2        | 2.3         | 2       | 108      | 114       | 40-150          | 5.91   | 30        |
| 11CIPF3OUdS | 2.1        | 2.2         | 2       | 104      | 112       | 40-150          | 6.78   | 30        |
| 3:3 FTCA    | 2.3        | 2.1         | 2       | 114      | 105       | 40-150          | 7.85   | 30        |
| 4:2 FTS     | 2.0        | 2.0         | 2       | 98       | 99        | 40-150          | 1.02   | 30        |
| 5:3 FTCA    | 1.9        | 2.0         | 2       | 96       | 102       | 40-150          | 6.56   | 30        |
| 6:2 FTS     | 2.1        | 2.1         | 2       | 103      | 104       | 40-150          | 0.973  | 30        |
| 7:3 FTCA    | 1.8        | 1.9         | 2       | 90       | 93        | 40-150          | 3.27   | 30        |
| 8:2 FTS     | 2.0        | 2.0         | 2       | 102      | 102       | 40-150          | 0.0846 | 30        |
| 10:2 FTS    | 1.9        | 1.8         | 1.932   | 98       | 93        | 40-150          | 4.73   | 30        |
| ADONA       | 2.1        | 2.2         | 2       | 107      | 110       | 40-150          | 2.60   | 30        |
| EtFOSA      | 2.0        | 2.0         | 2       | 100      | 99        | 40-150          | 0.397  | 30        |
| EtFOSE      | 2.0        | 1.9         | 2       | 98       | 97        | 40-150          | 0.648  | 30        |
| HFPO-DA     | 2.0        | 2.0         | 2       | 100      | 102       | 40-150          | 2.52   | 30        |
| MeFOSA      | 1.9        | 2.0         | 2       | 97       | 98        | 40-150          | 0.580  | 30        |
| MeFOSE      | 2.0        | 2.0         | 2       | 100      | 101       | 40-150          | 1.20   | 30        |
| NEtFOSAA    | 2.2        | 2.2         | 2       | 110      | 111       | 40-150          | 1.18   | 30        |
| NFDHA       | 2.1        | 2.1         | 2       | 105      | 106       | 40-150          | 1.60   | 30        |
| NMeFOSAA    | 2.0        | 2.1         | 2       | 103      | 107       | 40-150          | 4.36   | 30        |
| PFBA        | 2.1        | 2.1         | 2       | 105      | 107       | 40-150          | 1.41   | 30        |
| PFBS        | 2.0        | 2.0         | 2       | 102      | 100       | 40-150          | 2.04   | 30        |
| PFDA        | 2.1        | 2.0         | 2       | 105      | 101       | 40-150          | 4.08   | 30        |
| PFDaA       | 1.9        | 1.9         | 2       | 95       | 96        | 40-150          | 0.929  | 30        |
| PFDoS       | 1.8        | 1.8         | 2       | 90       | 91        | 40-150          | 0.826  | 30        |
| PFDS        | 2.2        | 2.3         | 2       | 109      | 113       | 40-150          | 3.62   | 30        |
| PFEESA      | 2.0        | 2.2         | 2       | 102      | 109       | 40-150          | 6.73   | 30        |
| PFHpA       | 2.1        | 2.1         | 2       | 104      | 103       | 40-150          | 0.883  | 30        |
| PFHpS       | 2.0        | 2.0         | 2       | 102      | 101       | 40-150          | 0.223  | 30        |
| PFHxA       | 2.0        | 2.1         | 2       | 101      | 106       | 40-150          | 5.46   | 30        |
| PFHxDA      | 1.9        | 1.9         | 2       | 93       | 97        | 40-150          | 3.91   | 30        |
| PFHxS       | 2.0        | 2.0         | 2       | 98       | 99        | 40-150          | 0.683  | 30        |
| PFMBA       | 2.1        | 2.1         | 2       | 105      | 105       | 40-150          | 0.278  | 30        |
| PFMPA       | 2.1        | 2.2         | 2       | 105      | 109       | 40-150          | 3.90   | 30        |
| PFNA        | 2.1        | 2.0         | 2       | 104      | 99        | 40-150          | 5.29   | 30        |
| PFNS        | 2.1        | 2.0         | 2       | 105      | 101       | 40-150          | 3.39   | 30        |
| PFOA        | 2.1        | 2.0         | 2       | 104      | 102       | 40-150          | 1.51   | 30        |
| PFODA       | 1.9        | 1.9         | 2       | 93       | 95        | 40-150          | 2.64   | 30        |
| PFOS        | 2.0        | 2.0         | 2       | 102      | 101       | 40-150          | 1.44   | 30        |

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/19/2025  
**Date Analyzed:** 07/21/2025 - 07/22/2025  
**Instrument:** LC-MS4  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**BatchID:** 321764  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/g  
**Sample ID:** MB/LCS/LCSD-321764  
LCS2-321764

### QC Summary Report for E1633 Draft 3

| Analyte | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD  | RPD Limit |
|---------|------------|-------------|---------|----------|-----------|-----------------|------|-----------|
| PFOSA   | 1.9        | 2.0         | 2       | 96       | 98        | 40-150          | 2.20 | 30        |
| PFPeA   | 2.0        | 2.3         | 2       | 101      | 113       | 40-150          | 10.3 | 30        |
| PFPeS   | 1.8        | 2.0         | 2       | 92       | 100       | 40-150          | 7.75 | 30        |
| PFTeDA  | 2.1        | 2.0         | 2       | 104      | 100       | 40-150          | 4.07 | 30        |
| PFTrDA  | 2.4        | 2.3         | 2       | 120      | 114       | 40-150          | 5.56 | 30        |
| PFUnA   | 2.1        | 1.9         | 2       | 105      | 97        | 40-150          | 7.75 | 30        |

#### Surrogate Recovery

|               |      |      |       |     |     |        |       |    |
|---------------|------|------|-------|-----|-----|--------|-------|----|
| 13C2-4:2 FTS  | 4.9  | 4.7  | 4.69  | 104 | 101 | 20-150 | 3.24  | 30 |
| 13C2-6:2 FTS  | 4.7  | 4.9  | 4.755 | 98  | 102 | 20-150 | 4.26  | 30 |
| 13C2-8:2 FTS  | 5.1  | 5.1  | 4.8   | 107 | 107 | 20-150 | 0.302 | 30 |
| 13C2-PFDoA    | 1.2  | 1.3  | 1.25  | 99  | 101 | 20-150 | 1.74  | 30 |
| 13C2-PFTeDA   | 0.96 | 0.98 | 1.25  | 77  | 79  | 20-150 | 2.54  | 30 |
| 13C3-HFPO-DA  | 11   | 10   | 10    | 106 | 100 | 20-150 | 5.87  | 30 |
| 13C3-PFBS     | 2.3  | 2.4  | 2.33  | 100 | 101 | 20-150 | 0.518 | 30 |
| 13C3-PFHxS    | 2.5  | 2.4  | 2.37  | 104 | 102 | 20-150 | 1.23  | 30 |
| 13C4-PFBA     | 10   | 10   | 10    | 100 | 102 | 20-150 | 1.81  | 30 |
| 13C4-PFHpA    | 2.7  | 2.6  | 2.5   | 108 | 104 | 20-150 | 4.35  | 30 |
| 13C5-PFHxA    | 2.8  | 2.6  | 2.5   | 110 | 103 | 20-150 | 7.15  | 30 |
| 13C5-PFPeA    | 5.1  | 5.0  | 5     | 103 | 100 | 20-150 | 2.74  | 30 |
| 13C6-PFDA     | 1.3  | 1.3  | 1.25  | 107 | 105 | 20-150 | 1.59  | 30 |
| 13C7-PFUdA    | 1.2  | 1.2  | 1.25  | 96  | 96  | 20-150 | 0.315 | 30 |
| 13C8-PFOA     | 2.6  | 2.6  | 2.5   | 104 | 105 | 20-150 | 0.539 | 30 |
| 13C8-PFOS     | 2.5  | 2.6  | 2.395 | 106 | 108 | 20-150 | 1.70  | 30 |
| 13C8-PFOSA    | 2.8  | 2.8  | 2.5   | 111 | 111 | 20-150 | 0.139 | 30 |
| 13C9-PFNA     | 1.2  | 1.3  | 1.25  | 100 | 102 | 20-150 | 2.43  | 30 |
| d3-MeFOSAA    | 5.2  | 5.4  | 5     | 104 | 108 | 20-150 | 3.78  | 30 |
| d5-EtFOSAA    | 3.8  | 3.8  | 5     | 75  | 76  | 20-150 | 1.31  | 30 |
| 13C2-PFHxDA   | 4.3  | 4.3  | 5     | 86  | 85  | 20-150 | 0.515 | 30 |
| d3-MeFOSA     | 2.3  | 2.2  | 2.5   | 91  | 89  | 20-150 | 2.73  | 30 |
| d5-EtFOSA     | 2.2  | 2.2  | 2.5   | 89  | 87  | 20-150 | 2.03  | 30 |
| d7N-MeFOSE1   | 22   | 22   | 25    | 88  | 90  | 20-150 | 1.97  | 30 |
| d9N-EtFOSE1   | 23   | 23   | 25    | 93  | 91  | 20-150 | 1.66  | 30 |
| 13C2-10:2 FTS | 9.3  | 9.7  | 9.66  | 96  | 100 | 20-150 | 4.12  | 30 |

| Analyte | LCS2 Result | SPK Val | LCS2 %REC | LCS2 Limits |
|---------|-------------|---------|-----------|-------------|
|---------|-------------|---------|-----------|-------------|

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/19/2025  
**Date Analyzed:** 07/21/2025 - 07/22/2025  
**Instrument:** LC-MS4  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**BatchID:** 321764  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/g  
**Sample ID:** MB/LCS/LCSD-321764  
LCS2-321764

### QC Summary Report for E1633 Draft 3

|             |      |       |     |        |
|-------------|------|-------|-----|--------|
| 9CIPF3ONS   | 0.39 | 0.4   | 98  | 40-150 |
| 11CIPF3OUdS | 0.37 | 0.4   | 92  | 40-150 |
| 3:3 FTCA    | 0.40 | 0.4   | 100 | 40-150 |
| 4:2 FTS     | 0.36 | 0.4   | 90  | 40-150 |
| 5:3 FTCA    | 0.36 | 0.4   | 89  | 40-150 |
| 6:2 FTS     | 0.37 | 0.4   | 92  | 40-150 |
| 7:3 FTCA    | 0.36 | 0.4   | 91  | 40-150 |
| 8:2 FTS     | 0.38 | 0.4   | 95  | 40-150 |
| 10:2 FTS    | 0.32 | 0.386 | 82  | 40-150 |
| ADONA       | 0.38 | 0.4   | 96  | 40-150 |
| EtFOSA      | 0.37 | 0.4   | 92  | 40-150 |
| EtFOSE      | 0.36 | 0.4   | 91  | 40-150 |
| HFPO-DA     | 0.40 | 0.4   | 101 | 40-150 |
| MeFOSA      | 0.38 | 0.4   | 94  | 40-150 |
| MeFOSE      | 0.38 | 0.4   | 94  | 40-150 |
| NEtFOSAA    | 0.41 | 0.4   | 103 | 40-150 |
| NFDHA       | 0.38 | 0.4   | 94  | 40-150 |
| NMeFOSAA    | 0.37 | 0.4   | 93  | 40-150 |
| PFBA        | 0.37 | 0.4   | 92  | 40-150 |
| PFBS        | 0.37 | 0.4   | 92  | 40-150 |
| PFDA        | 0.37 | 0.4   | 93  | 40-150 |
| PFDaA       | 0.36 | 0.4   | 89  | 40-150 |
| PFDoS       | 0.33 | 0.4   | 82  | 40-150 |
| PFDS        | 0.39 | 0.4   | 97  | 40-150 |
| PFEESA      | 0.42 | 0.4   | 105 | 40-150 |
| PFHpA       | 0.36 | 0.4   | 90  | 40-150 |
| PFHpS       | 0.36 | 0.4   | 91  | 40-150 |
| PFHxA       | 0.35 | 0.4   | 89  | 40-150 |
| PFHxDA      | 0.35 | 0.4   | 88  | 40-150 |
| PFHxS       | 0.37 | 0.4   | 93  | 40-150 |
| PFMBA       | 0.40 | 0.4   | 101 | 40-150 |
| PFMPA       | 0.39 | 0.4   | 98  | 40-150 |
| PFNA        | 0.38 | 0.4   | 96  | 40-150 |
| PFNS        | 0.34 | 0.4   | 86  | 40-150 |
| PFOA        | 0.32 | 0.4   | 80  | 40-150 |
| PFODA       | 0.34 | 0.4   | 85  | 40-150 |
| PFOS        | 0.45 | 0.4   | 114 | 40-150 |
| PFOSA       | 0.47 | 0.4   | 119 | 40-150 |
| PFPeA       | 0.39 | 0.4   | 99  | 40-150 |
| PFPeS       | 0.37 | 0.4   | 91  | 40-150 |

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/19/2025  
**Date Analyzed:** 07/21/2025 - 07/22/2025  
**Instrument:** LC-MS4  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**BatchID:** 321764  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/g  
**Sample ID:** MB/LCS/LCSD-321764  
LCSD-321764

### QC Summary Report for E1633 Draft 3

| Analyte                   | LCS2 Result | SPK Val | LCS2 %REC | LCS2 Limits |
|---------------------------|-------------|---------|-----------|-------------|
| PFTeDA                    | 0.39        | 0.4     | 97        | 40-150      |
| PFTTrDA                   | 0.44        | 0.4     | 111       | 40-150      |
| PFUnA                     | 0.35        | 0.4     | 87        | 40-150      |
| <b>Surrogate Recovery</b> |             |         |           |             |
| 13C2-4:2 FTS              | 4.7         | 4.69    | 101       | 20-150      |
| 13C2-6:2 FTS              | 4.9         | 4.755   | 103       | 20-150      |
| 13C2-8:2 FTS              | 5.1         | 4.8     | 107       | 20-150      |
| 13C2-PFDaA                | 1.2         | 1.25    | 100       | 20-150      |
| 13C2-PFTeDA               | 0.99        | 1.25    | 79        | 20-150      |
| 13C3-HFPO-DA              | 11          | 10      | 111       | 20-150      |
| 13C3-PFBS                 | 2.4         | 2.33    | 103       | 20-150      |
| 13C3-PFHxS                | 2.5         | 2.37    | 106       | 20-150      |
| 13C4-PFBA                 | 10          | 10      | 105       | 20-150      |
| 13C4-PFHpA                | 2.8         | 2.5     | 114       | 20-150      |
| 13C5-PFHxA                | 2.8         | 2.5     | 110       | 20-150      |
| 13C5-PFPeA                | 5.2         | 5       | 105       | 20-150      |
| 13C6-PFDA                 | 1.3         | 1.25    | 104       | 20-150      |
| 13C7-PFUdA                | 1.2         | 1.25    | 95        | 20-150      |
| 13C8-PFOA                 | 2.7         | 2.5     | 107       | 20-150      |
| 13C8-PFOS                 | 2.6         | 2.395   | 109       | 20-150      |
| 13C8-PFOSA                | 2.3         | 2.5     | 91        | 20-150      |
| 13C9-PFNA                 | 1.3         | 1.25    | 106       | 20-150      |
| d3-MeFOSAA                | 5.3         | 5       | 105       | 20-150      |
| d5-EtFOSAA                | 3.7         | 5       | 73        | 20-150      |
| 13C2-PFHxDA               | 4.4         | 5       | 88        | 20-150      |
| d3-MeFOSA                 | 2.2         | 2.5     | 87        | 20-150      |
| d5-EtFOSA                 | 2.2         | 2.5     | 90        | 20-150      |
| d7N-MeFOSE1               | 22          | 25      | 89        | 20-150      |
| d9N-EtFOSE1               | 23          | 25      | 92        | 20-150      |
| 13C2-10:2 FTS             | 9.4         | 9.66    | 98        | 20-150      |



## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/21/2025  
**Date Analyzed:** 07/21/2025 - 07/22/2025  
**Instrument:** LC-MS4  
**Matrix:** Water  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**BatchID:** 321791  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/L  
**Sample ID:** MB/LCS/LCSD-321791  
LCS2-321791

### QC Summary Report for E1633 Draft 3

| Analyte     | MB Result | MDL  | RL  | SPK Val | MB IS/SS %REC | MB IS/SS Limits |
|-------------|-----------|------|-----|---------|---------------|-----------------|
| 9CIPF3ONS   | ND        | 0.38 | 2.0 | -       | -             | -               |
| 11CIPF3OUdS | ND        | 0.25 | 2.0 | -       | -             | -               |
| 3:3 FTCA    | ND        | 0.61 | 2.0 | -       | -             | -               |
| 4:2 FTS     | ND        | 0.83 | 2.0 | -       | -             | -               |
| 5:3 FTCA    | ND        | 0.46 | 2.0 | -       | -             | -               |
| 6:2 FTS     | ND        | 0.44 | 2.0 | -       | -             | -               |
| 7:3 FTCA    | ND        | 0.43 | 2.0 | -       | -             | -               |
| 8:2 FTS     | ND        | 1.0  | 2.0 | -       | -             | -               |
| 10:2 FTS    | ND        | 0.60 | 1.9 | -       | -             | -               |
| ADONA       | ND        | 0.46 | 2.0 | -       | -             | -               |
| EtFOSA      | ND        | 0.85 | 2.0 | -       | -             | -               |
| EtFOSE      | ND        | 0.58 | 2.0 | -       | -             | -               |
| HFPO-DA     | ND        | 1.0  | 2.0 | -       | -             | -               |
| MeFOSA      | ND        | 0.93 | 2.0 | -       | -             | -               |
| MeFOSE      | ND        | 0.59 | 2.0 | -       | -             | -               |
| NEtFOSAA    | ND        | 0.77 | 2.0 | -       | -             | -               |
| NFDHA       | ND        | 0.35 | 2.0 | -       | -             | -               |
| NMeFOSAA    | ND        | 0.49 | 2.0 | -       | -             | -               |
| PFBA        | ND        | 0.34 | 2.0 | -       | -             | -               |
| PFBS        | ND        | 0.57 | 2.0 | -       | -             | -               |
| PFDA        | ND        | 0.52 | 2.0 | -       | -             | -               |
| PFDaA       | ND        | 0.37 | 2.0 | -       | -             | -               |
| PFDoS       | ND        | 0.59 | 2.0 | -       | -             | -               |
| PFDS        | ND        | 0.50 | 2.0 | -       | -             | -               |
| PFEESA      | ND        | 0.29 | 2.0 | -       | -             | -               |
| PFHpA       | ND        | 0.45 | 2.0 | -       | -             | -               |
| PFHpS       | 0.34,J    | 0.28 | 2.0 | -       | -             | -               |
| PFHxA       | ND        | 0.46 | 2.0 | -       | -             | -               |
| PFHxDA      | ND        | 0.52 | 2.0 | -       | -             | -               |
| PFHxS       | ND        | 0.57 | 2.0 | -       | -             | -               |
| PFMBA       | ND        | 0.40 | 2.0 | -       | -             | -               |
| PFMPA       | ND        | 0.42 | 2.0 | -       | -             | -               |
| PFNA        | ND        | 0.59 | 2.0 | -       | -             | -               |
| PFNS        | ND        | 0.30 | 2.0 | -       | -             | -               |
| PFOA        | ND        | 0.56 | 2.0 | -       | -             | -               |
| PFODA       | ND        | 1.7  | 2.0 | -       | -             | -               |
| PFOS        | ND        | 0.68 | 2.0 | -       | -             | -               |

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/21/2025  
**Date Analyzed:** 07/21/2025 - 07/22/2025  
**Instrument:** LC-MS4  
**Matrix:** Water  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**BatchID:** 321791  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/L  
**Sample ID:** MB/LCS/LCSD-321791  
LCSD-321791

### QC Summary Report for E1633 Draft 3

| Analyte | MB Result | MDL  | RL  | SPK Val | MB IS/SS %REC | MB IS/SS Limits |
|---------|-----------|------|-----|---------|---------------|-----------------|
| PFOSA   | ND        | 0.76 | 2.0 | -       | -             | -               |
| PFPeA   | ND        | 0.83 | 2.0 | -       | -             | -               |
| PFPeS   | 0.45,J    | 0.25 | 2.0 | -       | -             | -               |
| PFTeDA  | ND        | 0.47 | 2.0 | -       | -             | -               |
| PFTrDA  | ND        | 0.96 | 2.0 | -       | -             | -               |
| PFUnA   | ND        | 0.53 | 2.0 | -       | -             | -               |

#### Surrogate Recovery

|               |     |  |  |       |     |        |
|---------------|-----|--|--|-------|-----|--------|
| 13C2-4:2 FTS  | 42  |  |  | 46.9  | 90  | 40-200 |
| 13C2-6:2 FTS  | 44  |  |  | 47.55 | 92  | 40-200 |
| 13C2-8:2 FTS  | 50  |  |  | 48    | 104 | 40-300 |
| 13C2-PFDoA    | 13  |  |  | 12.5  | 107 | 20-130 |
| 13C2-PFTeDA   | 12  |  |  | 12.5  | 100 | 20-130 |
| 13C3-HFPO-DA  | 110 |  |  | 100   | 107 | 40-130 |
| 13C3-PFBS     | 24  |  |  | 23.3  | 103 | 40-135 |
| 13C3-PFHxS    | 26  |  |  | 23.7  | 109 | 40-130 |
| 13C4-PFBA     | 110 |  |  | 100   | 108 | 20-130 |
| 13C4-PFHpA    | 28  |  |  | 25    | 113 | 40-130 |
| 13C5-PFHxA    | 30  |  |  | 25    | 118 | 40-130 |
| 13C5-PFPeA    | 58  |  |  | 50    | 117 | 40-130 |
| 13C6-PFDA     | 14  |  |  | 12.5  | 111 | 40-130 |
| 13C7-PFUdA    | 14  |  |  | 12.5  | 109 | 30-130 |
| 13C8-PFOA     | 29  |  |  | 25    | 115 | 40-130 |
| 13C8-PFOS     | 26  |  |  | 23.95 | 107 | 40-130 |
| 13C8-PFOSA    | 29  |  |  | 25    | 116 | 40-130 |
| 13C9-PFNA     | 14  |  |  | 12.5  | 114 | 40-130 |
| d3-MeFOSAA    | 56  |  |  | 50    | 113 | 40-170 |
| d5-EtFOSAA    | 49  |  |  | 50    | 97  | 25-135 |
| 13C2-PFHxDA   | 52  |  |  | 50    | 104 | 20-150 |
| d3-MeFOSA     | 20  |  |  | 25    | 81  | 20-130 |
| d5-EtFOSA     | 19  |  |  | 25    | 77  | 20-130 |
| d7N-MeFOSE1   | 240 |  |  | 250   | 95  | 20-130 |
| d9N-EtFOSE1   | 250 |  |  | 250   | 100 | 20-130 |
| 13C2-10:2 FTS | 88  |  |  | 96.6  | 92  | 20-150 |

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/21/2025  
**Date Analyzed:** 07/21/2025 - 07/22/2025  
**Instrument:** LC-MS4  
**Matrix:** Water  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**BatchID:** 321791  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/L  
**Sample ID:** MB/LCS/LCSD-321791  
LCS2-321791

### QC Summary Report for E1633 Draft 3

| Analyte     | LCS<br>Result | LCSD<br>Result | SPK<br>Val | LCS<br>%REC | LCSD<br>%REC | LCS/LCSD<br>Limits | RPD      | RPD<br>Limit |
|-------------|---------------|----------------|------------|-------------|--------------|--------------------|----------|--------------|
| 9CIPF3ONS   | 19            | 19             | 20         | 95          | 93           | 70-155             | 1.98     | 30           |
| 11CIPF3OUdS | 18            | 18             | 20         | 91          | 88           | 55-160             | 3.21     | 30           |
| 3:3 FTCA    | 24            | 23             | 20         | 121         | 116          | 65-130             | 4.50     | 30           |
| 4:2 FTS     | 21            | 21             | 20         | 107         | 107          | 70-145             | 0.000466 | 30           |
| 5:3 FTCA    | 19            | 19             | 20         | 96          | 97           | 70-135             | 1.42     | 30           |
| 6:2 FTS     | 20            | 21             | 20         | 102         | 106          | 65-155             | 3.36     | 30           |
| 7:3 FTCA    | 19            | 19             | 20         | 95          | 96           | 50-145             | 1.03     | 30           |
| 8:2 FTS     | 19            | 19             | 20         | 96          | 97           | 60-150             | 0.569    | 30           |
| 10:2 FTS    | 19            | 19             | 19.3       | 100         | 99           | 50-150             | 0.328    | 30           |
| ADONA       | 20            | 21             | 20         | 102         | 103          | 65-145             | 0.614    | 30           |
| EtFOSA      | 20            | 20             | 20         | 102         | 99           | 65-145             | 2.94     | 30           |
| EtFOSE      | 19            | 21             | 20         | 96          | 103          | 70-135             | 6.76     | 30           |
| HFPO-DA     | 20            | 19             | 20         | 101         | 95           | 70-140             | 6.60     | 30           |
| MeFOSA      | 20            | 19             | 20         | 98          | 94           | 60-150             | 4.14     | 30           |
| MeFOSE      | 20            | 19             | 20         | 101         | 96           | 70-145             | 4.47     | 30           |
| NEtFOSAA    | 20            | 20             | 20         | 99          | 102          | 70-145             | 2.54     | 30           |
| NFDHA       | 19            | 21             | 20         | 94          | 104          | 50-150             | 9.47     | 30           |
| NMeFOSAA    | 20            | 20             | 20         | 100         | 98           | 50-140             | 1.60     | 30           |
| PFBA        | 21            | 21             | 20         | 107         | 107          | 70-140             | 0.250    | 30           |
| PFBS        | 17            | 18             | 20         | 86          | 91           | 60-145             | 5.89     | 30           |
| PFDA        | 20            | 20             | 20         | 100         | 101          | 70-140             | 0.743    | 30           |
| PFDaA       | 19            | 19             | 20         | 93          | 93           | 70-140             | 0.519    | 30           |
| PFDoS       | 18            | 18             | 20         | 92          | 90           | 50-150             | 2.28     | 30           |
| PFDS        | 21            | 21             | 20         | 105         | 106          | 60-145             | 1.34     | 30           |
| PFEESA      | 21            | 19             | 20         | 103         | 97           | 70-140             | 6.26     | 30           |
| PFHpA       | 20            | 21             | 20         | 101         | 104          | 70-150             | 2.87     | 30           |
| PFHpS       | 19            | 19             | 20         | 96          | 96           | 70-150             | 0.0199   | 30           |
| PFHxA       | 22            | 21             | 20         | 110         | 105          | 70-145             | 5.33     | 30           |
| PFHxDA      | 19            | 19             | 20         | 94          | 93           | 50-150             | 0.469    | 30           |
| PFHxS       | 19            | 19             | 20         | 95          | 95           | 65-145             | 0.0641   | 30           |
| PFMBA       | 21            | 20             | 20         | 104         | 100          | 60-150             | 4.11     | 30           |
| PFMPA       | 22            | 21             | 20         | 110         | 105          | 55-140             | 4.82     | 30           |
| PFNA        | 21            | 20             | 20         | 105         | 100          | 70-150             | 4.24     | 30           |
| PFNS        | 20            | 20             | 20         | 100         | 100          | 65-145             | 0.228    | 30           |
| PFOA        | 20            | 20             | 20         | 100         | 99           | 70-150             | 1.08     | 30           |
| PFODA       | 16            | 15             | 20         | 81          | 74           | 50-150             | 9.06     | 30           |
| PFOS        | 20            | 20             | 20         | 98          | 100          | 55-150             | 2.13     | 30           |

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/21/2025  
**Date Analyzed:** 07/21/2025 - 07/22/2025  
**Instrument:** LC-MS4  
**Matrix:** Water  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**BatchID:** 321791  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/L  
**Sample ID:** MB/LCS/LCSD-321791  
LCS2-321791

### QC Summary Report for E1633 Draft 3

| Analyte | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD  | RPD Limit |
|---------|------------|-------------|---------|----------|-----------|-----------------|------|-----------|
| PFOSA   | 16         | 16          | 20      | 82       | 81        | 70-145          | 1.47 | 30        |
| PFPeA   | 21         | 19          | 20      | 103      | 97        | 65-135          | 5.95 | 30        |
| PFPeS   | 19         | 18          | 20      | 95       | 90        | 65-140          | 5.36 | 30        |
| PFTeDA  | 20         | 20          | 20      | 100      | 102       | 60-140          | 1.94 | 30        |
| PFTrDA  | 22         | 24          | 20      | 111      | 120       | 65-140          | 8.30 | 30        |
| PFUnA   | 21         | 20          | 20      | 103      | 100       | 70-145          | 2.76 | 30        |

#### Surrogate Recovery

|               |     |     |       |     |     |        |   |   |
|---------------|-----|-----|-------|-----|-----|--------|---|---|
| 13C2-4:2 FTS  | 39  | 40  | 46.9  | 83  | 84  | 40-200 | - | - |
| 13C2-6:2 FTS  | 42  | 44  | 47.55 | 89  | 93  | 40-200 | - | - |
| 13C2-8:2 FTS  | 48  | 48  | 48    | 100 | 100 | 40-300 | - | - |
| 13C2-PFDoA    | 13  | 13  | 12.5  | 104 | 105 | 20-130 | - | - |
| 13C2-PFTeDA   | 12  | 12  | 12.5  | 94  | 93  | 20-130 | - | - |
| 13C3-HFPO-DA  | 110 | 110 | 100   | 108 | 111 | 40-130 | - | - |
| 13C3-PFBS     | 23  | 24  | 23.3  | 100 | 105 | 40-135 | - | - |
| 13C3-PFHxS    | 24  | 25  | 23.7  | 102 | 107 | 40-130 | - | - |
| 13C4-PFBA     | 100 | 110 | 100   | 104 | 107 | 20-130 | - | - |
| 13C4-PFHpA    | 27  | 27  | 25    | 109 | 108 | 40-130 | - | - |
| 13C5-PFHxA    | 28  | 28  | 25    | 112 | 113 | 40-130 | - | - |
| 13C5-PFPeA    | 53  | 56  | 50    | 106 | 111 | 40-130 | - | - |
| 13C6-PFDA     | 14  | 14  | 12.5  | 110 | 110 | 40-130 | - | - |
| 13C7-PFUDa    | 13  | 13  | 12.5  | 103 | 108 | 30-130 | - | - |
| 13C8-PFOA     | 27  | 28  | 25    | 110 | 111 | 40-130 | - | - |
| 13C8-PFOS     | 24  | 25  | 23.95 | 99  | 103 | 40-130 | - | - |
| 13C8-PFOSA    | 26  | 28  | 25    | 105 | 111 | 40-130 | - | - |
| 13C9-PFNA     | 13  | 13  | 12.5  | 106 | 108 | 40-130 | - | - |
| d3-MeFOSAA    | 51  | 55  | 50    | 102 | 110 | 40-170 | - | - |
| d5-EtFOSAA    | 45  | 45  | 50    | 90  | 90  | 25-135 | - | - |
| 13C2-PFHxDA   | 50  | 48  | 50    | 100 | 95  | 20-150 | - | - |
| d3-MeFOSA     | 19  | 20  | 25    | 77  | 81  | 20-130 | - | - |
| d5-EtFOSA     | 19  | 20  | 25    | 74  | 79  | 20-130 | - | - |
| d7N-MeFOSE1   | 220 | 240 | 250   | 87  | 95  | 20-130 | - | - |
| d9N-EtFOSE1   | 230 | 240 | 250   | 93  | 98  | 20-130 | - | - |
| 13C2-10:2 FTS | 81  | 84  | 96.6  | 83  | 87  | 20-150 | - | - |

| Analyte | LCS2 Result | SPK Val | LCS2 %REC | LCS2 Limits |
|---------|-------------|---------|-----------|-------------|
|---------|-------------|---------|-----------|-------------|

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/21/2025  
**Date Analyzed:** 07/21/2025 - 07/22/2025  
**Instrument:** LC-MS4  
**Matrix:** Water  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**BatchID:** 321791  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/L  
**Sample ID:** MB/LCS/LCSD-321791  
LCS2-321791

### QC Summary Report for E1633 Draft 3

|             |     |      |     |        |
|-------------|-----|------|-----|--------|
| 9CIPF3ONS   | 3.5 | 4    | 87  | 70-155 |
| 11CIPF3OUdS | 3.1 | 4    | 77  | 55-160 |
| 3:3 FTCA    | 4.3 | 4    | 108 | 65-130 |
| 4:2 FTS     | 4.3 | 4    | 107 | 70-145 |
| 5:3 FTCA    | 4.2 | 4    | 105 | 70-135 |
| 6:2 FTS     | 4.1 | 4    | 102 | 65-155 |
| 7:3 FTCA    | 4.0 | 4    | 101 | 50-145 |
| 8:2 FTS     | 4.2 | 4    | 104 | 60-150 |
| 10:2 FTS    | 3.9 | 3.86 | 102 | 50-150 |
| ADONA       | 4.0 | 4    | 100 | 65-145 |
| EtFOSA      | 4.2 | 4    | 105 | 65-145 |
| EtFOSE      | 3.9 | 4    | 97  | 70-135 |
| HFPO-DA     | 3.7 | 4    | 92  | 70-140 |
| MeFOSA      | 3.8 | 4    | 96  | 60-150 |
| MeFOSE      | 3.9 | 4    | 98  | 70-145 |
| NEtFOSAA    | 4.0 | 4    | 101 | 70-145 |
| NFDHA       | 3.8 | 4    | 94  | 50-150 |
| NMeFOSAA    | 3.9 | 4    | 98  | 50-140 |
| PFBA        | 4.2 | 4    | 105 | 70-140 |
| PFBS        | 4.2 | 4    | 106 | 60-145 |
| PFDA        | 4.0 | 4    | 99  | 70-140 |
| PFDaA       | 3.8 | 4    | 96  | 70-140 |
| PFDoS       | 2.9 | 4    | 73  | 50-150 |
| PFDS        | 3.8 | 4    | 95  | 60-145 |
| PFEESA      | 3.9 | 4    | 96  | 70-140 |
| PFHpA       | 3.7 | 4    | 92  | 70-150 |
| PFHpS       | 3.8 | 4    | 96  | 70-150 |
| PFHxA       | 4.1 | 4    | 102 | 70-145 |
| PFHxDA      | 3.9 | 4    | 99  | 50-150 |
| PFHxS       | 4.0 | 4    | 100 | 65-145 |
| PFMBA       | 3.8 | 4    | 95  | 60-150 |
| PFMPA       | 3.9 | 4    | 98  | 55-140 |
| PFNA        | 4.1 | 4    | 102 | 70-150 |
| PFNS        | 4.0 | 4    | 99  | 65-145 |
| PFOA        | 4.0 | 4    | 101 | 70-150 |
| PFODA       | 2.3 | 4    | 57  | 50-150 |
| PFOS        | 4.0 | 4    | 101 | 55-150 |
| PFOSA       | 3.6 | 4    | 91  | 70-145 |
| PFPeA       | 3.8 | 4    | 94  | 65-135 |
| PFPeS       | 4.1 | 4    | 103 | 65-140 |

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/21/2025  
**Date Analyzed:** 07/21/2025 - 07/22/2025  
**Instrument:** LC-MS4  
**Matrix:** Water  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**BatchID:** 321791  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/L  
**Sample ID:** MB/LCS/LCSD-321791  
LCSD-321791

### QC Summary Report for E1633 Draft 3

| Analyte                   | LCS2 Result | SPK Val | LCS2 %REC | LCS2 Limits |
|---------------------------|-------------|---------|-----------|-------------|
| PFTeDA                    | 3.9         | 4       | 97        | 60-140      |
| PFTTrDA                   | 5.0         | 4       | 124       | 65-140      |
| PFUnA                     | 4.0         | 4       | 100       | 70-145      |
| <b>Surrogate Recovery</b> |             |         |           |             |
| 13C2-4:2 FTS              | 49          | 46.9    | 105       | 40-200      |
| 13C2-6:2 FTS              | 44          | 47.55   | 92        | 40-200      |
| 13C2-8:2 FTS              | 50          | 48      | 105       | 40-300      |
| 13C2-PFDaA                | 12          | 12.5    | 93        | 20-130      |
| 13C2-PFTeDA               | 9.1         | 12.5    | 73        | 20-130      |
| 13C3-HFPO-DA              | 110         | 100     | 110       | 40-130      |
| 13C3-PFBS                 | 21          | 23.3    | 91        | 40-135      |
| 13C3-PFHxS                | 23          | 23.7    | 98        | 40-130      |
| 13C4-PFBA                 | 100         | 100     | 102       | 20-130      |
| 13C4-PFHpA                | 28          | 25      | 111       | 40-130      |
| 13C5-PFHxA                | 28          | 25      | 113       | 40-130      |
| 13C5-PFPeA                | 57          | 50      | 114       | 40-130      |
| 13C6-PFDA                 | 13          | 12.5    | 104       | 40-130      |
| 13C7-PFUdA                | 12          | 12.5    | 98        | 30-130      |
| 13C8-PFOA                 | 25          | 25      | 101       | 40-130      |
| 13C8-PFOS                 | 23          | 23.95   | 96        | 40-130      |
| 13C8-PFOSA                | 26          | 25      | 103       | 40-130      |
| 13C9-PFNA                 | 12          | 12.5    | 99        | 40-130      |
| d3-MeFOSAA                | 54          | 50      | 109       | 40-170      |
| d5-EtFOSAA                | 42          | 50      | 84        | 25-135      |
| 13C2-PFHxDA               | 34          | 50      | 67        | 20-150      |
| d3-MeFOSA                 | 18          | 25      | 73        | 20-130      |
| d5-EtFOSA                 | 17          | 25      | 67        | 20-130      |
| d7N-MeFOSE1               | 210         | 250     | 85        | 20-130      |
| d9N-EtFOSE1               | 220         | 250     | 88        | 20-130      |
| 13C2-10:2 FTS             | 80          | 96.6    | 83        | 20-150      |



## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/18/2025  
**Date Analyzed:** 07/22/2025  
**Instrument:** GC20  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**BatchID:** 321726  
**Extraction Method:** SW3550 B  
**Analytical Method:** SW8081 B  
**Unit:** mg/kg  
**Sample ID:** MB/LCS/LCSD-321726

### QC Summary Report for SW8081 B

| Analyte                   | MB Result | MDL     | RL     | SPK Val | MB IS/SS %REC | MB IS/SS Limits |
|---------------------------|-----------|---------|--------|---------|---------------|-----------------|
| Aldrin                    | ND        | 0.00042 | 0.0010 | -       | -             | -               |
| a-BHC                     | ND        | 0.00045 | 0.0010 | -       | -             | -               |
| b-BHC                     | ND        | 0.00038 | 0.0010 | -       | -             | -               |
| d-BHC                     | ND        | 0.00036 | 0.0010 | -       | -             | -               |
| g-BHC                     | ND        | 0.00036 | 0.0010 | -       | -             | -               |
| a-Chlordane               | ND        | 0.00035 | 0.0010 | -       | -             | -               |
| g-Chlordane               | ND        | 0.00067 | 0.0010 | -       | -             | -               |
| p,p-DDD                   | ND        | 0.00057 | 0.0010 | -       | -             | -               |
| p,p-DDE                   | ND        | 0.00034 | 0.0010 | -       | -             | -               |
| p,p-DDT                   | ND        | 0.00043 | 0.0010 | -       | -             | -               |
| Dieldrin                  | ND        | 0.00041 | 0.0010 | -       | -             | -               |
| Endosulfan I              | ND        | 0.00040 | 0.0010 | -       | -             | -               |
| Endosulfan II             | ND        | 0.00051 | 0.0010 | -       | -             | -               |
| Endosulfan sulfate        | ND        | 0.00040 | 0.0010 | -       | -             | -               |
| Endrin                    | ND        | 0.00045 | 0.0010 | -       | -             | -               |
| Endrin aldehyde           | ND        | 0.00045 | 0.0010 | -       | -             | -               |
| Endrin ketone             | ND        | 0.00042 | 0.0010 | -       | -             | -               |
| Heptachlor                | ND        | 0.00067 | 0.0010 | -       | -             | -               |
| Heptachlor epoxide        | ND        | 0.00041 | 0.0010 | -       | -             | -               |
| Hexachlorobenzene         | ND        | 0.00038 | 0.010  | -       | -             | -               |
| Hexachlorocyclopentadiene | ND        | 0.00064 | 0.020  | -       | -             | -               |
| Methoxychlor              | ND        | 0.00063 | 0.0010 | -       | -             | -               |
| <b>Surrogate Recovery</b> |           |         |        |         |               |                 |
| Decachlorobiphenyl        | 0.046     |         |        | 0.05    | 92            | 70-130          |

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/18/2025  
**Date Analyzed:** 07/22/2025  
**Instrument:** GC20  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**BatchID:** 321726  
**Extraction Method:** SW3550 B  
**Analytical Method:** SW8081 B  
**Unit:** mg/kg  
**Sample ID:** MB/LCS/LCSD-321726

### QC Summary Report for SW8081 B

| Analyte                   | LCS<br>Result | LCSD<br>Result | SPK<br>Val | LCS<br>%REC | LCSD<br>%REC | LCS/LCSD<br>Limits | RPD  | RPD<br>Limit |
|---------------------------|---------------|----------------|------------|-------------|--------------|--------------------|------|--------------|
| Aldrin                    | 0.054         | 0.052          | 0.050      | 109         | 104          | 70-130             | 4.35 | 20           |
| a-BHC                     | 0.056         | 0.054          | 0.050      | 111         | 108          | 70-130             | 2.85 | 20           |
| b-BHC                     | 0.049         | 0.047          | 0.050      | 99          | 95           | 70-130             | 4.20 | 20           |
| d-BHC                     | 0.050         | 0.048          | 0.050      | 101         | 96           | 70-130             | 5.01 | 20           |
| g-BHC                     | 0.053         | 0.051          | 0.050      | 105         | 101          | 70-130             | 4.11 | 20           |
| a-Chlordane               | 0.051         | 0.049          | 0.050      | 102         | 97           | 70-130             | 4.74 | 20           |
| g-Chlordane               | 0.059         | 0.056          | 0.050      | 118         | 112          | 70-130             | 5.13 | 20           |
| p,p-DDD                   | 0.050         | 0.048          | 0.050      | 100         | 96           | 70-130             | 4.93 | 20           |
| p,p-DDE                   | 0.050         | 0.048          | 0.050      | 100         | 95           | 70-130             | 5.07 | 20           |
| p,p-DDT                   | 0.045         | 0.041          | 0.050      | 91          | 83           | 70-130             | 9.28 | 20           |
| Dieldrin                  | 0.049         | 0.047          | 0.050      | 98          | 93           | 70-130             | 4.89 | 20           |
| Endosulfan I              | 0.052         | 0.049          | 0.050      | 103         | 99           | 70-130             | 4.22 | 20           |
| Endosulfan II             | 0.050         | 0.047          | 0.050      | 100         | 95           | 70-130             | 5.34 | 20           |
| Endosulfan sulfate        | 0.048         | 0.045          | 0.050      | 96          | 90           | 70-130             | 6.49 | 20           |
| Endrin                    | 0.057         | 0.053          | 0.050      | 114         | 107          | 70-130             | 6.38 | 20           |
| Endrin aldehyde           | 0.049         | 0.047          | 0.050      | 98          | 93           | 70-130             | 5.27 | 20           |
| Endrin ketone             | 0.049         | 0.046          | 0.050      | 98          | 92           | 70-130             | 5.70 | 20           |
| Heptachlor                | 0.053         | 0.050          | 0.050      | 106         | 100          | 70-130             | 5.02 | 20           |
| Heptachlor epoxide        | 0.051         | 0.049          | 0.050      | 102         | 97           | 70-130             | 4.48 | 20           |
| Hexachlorobenzene         | 0.049         | 0.047          | 0.050      | 98          | 95           | 70-130             | 4.00 | 20           |
| Hexachlorocyclopentadiene | 0.039         | 0.037          | 0.050      | 79          | 74           | 50-130             | 5.91 | 20           |
| Methoxychlor              | 0.046         | 0.042          | 0.050      | 92          | 83           | 70-130             | 9.37 | 20           |
| <b>Surrogate Recovery</b> |               |                |            |             |              |                    |      |              |
| Decachlorobiphenyl        | 0.048         | 0.046          | 0.050      | 96          | 93           | 70-130             | 4.18 | 20           |



## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/18/2025  
**Date Analyzed:** 07/21/2025  
**Instrument:** GC38  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**BatchID:** 321730  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg  
**Sample ID:** MB/LCS/LCSD-321730

### QC Summary Report for SW8260D

| Analyte                       | MB Result | MDL      | RL      | SPK Val | MB IS/SS %REC | MB IS/SS Limits |
|-------------------------------|-----------|----------|---------|---------|---------------|-----------------|
| Acetone                       | ND        | 0.12     | 0.20    | -       | -             | -               |
| tert-Amyl methyl ether (TAME) | ND        | 0.0012   | 0.0050  | -       | -             | -               |
| Benzene                       | ND        | 0.00095  | 0.0050  | -       | -             | -               |
| Bromobenzene                  | ND        | 0.0012   | 0.0050  | -       | -             | -               |
| Bromochloromethane            | ND        | 0.0011   | 0.0050  | -       | -             | -               |
| Bromodichloromethane          | ND        | 0.00023  | 0.0050  | -       | -             | -               |
| Bromoform                     | ND        | 0.0038   | 0.0050  | -       | -             | -               |
| Bromomethane                  | ND        | 0.0018   | 0.0050  | -       | -             | -               |
| 2-Butanone (MEK)              | ND        | 0.040    | 0.10    | -       | -             | -               |
| t-Butyl alcohol (TBA)         | ND        | 0.024    | 0.050   | -       | -             | -               |
| n-Butyl benzene               | ND        | 0.0016   | 0.0050  | -       | -             | -               |
| sec-Butyl benzene             | ND        | 0.0018   | 0.0050  | -       | -             | -               |
| tert-Butyl benzene            | ND        | 0.0021   | 0.0050  | -       | -             | -               |
| Carbon Disulfide              | ND        | 0.0011   | 0.0050  | -       | -             | -               |
| Carbon Tetrachloride          | ND        | 0.00017  | 0.0050  | -       | -             | -               |
| Chlorobenzene                 | ND        | 0.0012   | 0.0050  | -       | -             | -               |
| Chloroethane                  | ND        | 0.0017   | 0.0050  | -       | -             | -               |
| Chloroform                    | ND        | 0.00032  | 0.0050  | -       | -             | -               |
| Chloromethane                 | ND        | 0.0017   | 0.0050  | -       | -             | -               |
| 2-Chlorotoluene               | ND        | 0.0016   | 0.0050  | -       | -             | -               |
| 4-Chlorotoluene               | ND        | 0.0013   | 0.0050  | -       | -             | -               |
| Dibromochloromethane          | ND        | 0.00040  | 0.0050  | -       | -             | -               |
| 1,2-Dibromo-3-chloropropane   | ND        | 0.00048  | 0.00050 | -       | -             | -               |
| 1,2-Dibromoethane (EDB)       | ND        | 0.00013  | 0.00025 | -       | -             | -               |
| Dibromomethane                | ND        | 0.0012   | 0.0050  | -       | -             | -               |
| 1,2-Dichlorobenzene           | ND        | 0.0017   | 0.0050  | -       | -             | -               |
| 1,3-Dichlorobenzene           | ND        | 0.0015   | 0.0050  | -       | -             | -               |
| 1,4-Dichlorobenzene           | ND        | 0.0015   | 0.0050  | -       | -             | -               |
| Dichlorodifluoromethane       | ND        | 0.00063  | 0.0050  | -       | -             | -               |
| 1,1-Dichloroethane            | ND        | 0.0015   | 0.0050  | -       | -             | -               |
| 1,2-Dichloroethane (1,2-DCA)  | ND        | 0.000070 | 0.00010 | -       | -             | -               |
| 1,1-Dichloroethene            | ND        | 0.00011  | 0.0050  | -       | -             | -               |
| cis-1,2-Dichloroethene        | ND        | 0.0012   | 0.0050  | -       | -             | -               |
| trans-1,2-Dichloroethene      | ND        | 0.0012   | 0.0050  | -       | -             | -               |
| 1,2-Dichloropropane           | ND        | 0.0013   | 0.0050  | -       | -             | -               |
| 1,3-Dichloropropane           | ND        | 0.00088  | 0.0050  | -       | -             | -               |
| 2,2-Dichloropropane           | ND        | 0.0019   | 0.0050  | -       | -             | -               |
| 1,1-Dichloropropene           | ND        | 0.0018   | 0.0050  | -       | -             | -               |

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/18/2025  
**Date Analyzed:** 07/21/2025  
**Instrument:** GC38  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**BatchID:** 321730  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg  
**Sample ID:** MB/LCS/LCSD-321730

### QC Summary Report for SW8260D

| Analyte                       | MB Result | MDL     | RL      | SPK Val | MB IS/SS %REC | MB IS/SS Limits |
|-------------------------------|-----------|---------|---------|---------|---------------|-----------------|
| cis-1,3-Dichloropropene       | ND        | 0.00098 | 0.0050  | -       | -             | -               |
| trans-1,3-Dichloropropene     | ND        | 0.00097 | 0.0050  | -       | -             | -               |
| Diisopropyl ether (DIPE)      | ND        | 0.0018  | 0.0050  | -       | -             | -               |
| Ethylbenzene                  | ND        | 0.0011  | 0.0050  | -       | -             | -               |
| Ethyl tert-butyl ether (ETBE) | ND        | 0.0014  | 0.0050  | -       | -             | -               |
| Freon 113                     | ND        | 0.0011  | 0.0050  | -       | -             | -               |
| Hexachlorobutadiene           | ND        | 0.0012  | 0.0050  | -       | -             | -               |
| Hexachloroethane              | ND        | 0.00064 | 0.0050  | -       | -             | -               |
| 2-Hexanone                    | ND        | 0.0027  | 0.0050  | -       | -             | -               |
| Isopropylbenzene              | ND        | 0.0018  | 0.0050  | -       | -             | -               |
| 4-Isopropyl toluene           | ND        | 0.0019  | 0.0050  | -       | -             | -               |
| Methyl-t-butyl ether (MTBE)   | ND        | 0.0015  | 0.0050  | -       | -             | -               |
| Methylene chloride            | ND        | 0.012   | 0.020   | -       | -             | -               |
| 4-Methyl-2-pentanone (MIBK)   | ND        | 0.0017  | 0.0050  | -       | -             | -               |
| Naphthalene                   | ND        | 0.0030  | 0.0050  | -       | -             | -               |
| n-Propyl benzene              | ND        | 0.0019  | 0.0050  | -       | -             | -               |
| Styrene                       | ND        | 0.0014  | 0.0050  | -       | -             | -               |
| 1,1,1,2-Tetrachloroethane     | ND        | 0.0013  | 0.0050  | -       | -             | -               |
| 1,1,2,2-Tetrachloroethane     | ND        | 0.00044 | 0.0050  | -       | -             | -               |
| Tetrachloroethene             | ND        | 0.00029 | 0.0050  | -       | -             | -               |
| Toluene                       | ND        | 0.0016  | 0.0050  | -       | -             | -               |
| 1,2,3-Trichlorobenzene        | ND        | 0.0021  | 0.0050  | -       | -             | -               |
| 1,2,4-Trichlorobenzene        | ND        | 0.0016  | 0.0050  | -       | -             | -               |
| 1,1,1-Trichloroethane         | ND        | 0.0016  | 0.0050  | -       | -             | -               |
| 1,1,2-Trichloroethane         | ND        | 0.0012  | 0.0050  | -       | -             | -               |
| Trichloroethene               | ND        | 0.0014  | 0.0050  | -       | -             | -               |
| Trichlorofluoromethane        | ND        | 0.0013  | 0.0050  | -       | -             | -               |
| 1,2,3-Trichloropropane        | ND        | 0.00017 | 0.00025 | -       | -             | -               |
| 1,2,4-Trimethylbenzene        | ND        | 0.0016  | 0.0050  | -       | -             | -               |
| 1,3,5-Trimethylbenzene        | ND        | 0.0017  | 0.0050  | -       | -             | -               |
| Vinyl Chloride                | ND        | 0.00012 | 0.00025 | -       | -             | -               |
| m,p-Xylene                    | ND        | 0.0026  | 0.0050  | -       | -             | -               |
| o-Xylene                      | ND        | 0.0014  | 0.0050  | -       | -             | -               |

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## Quality Control Report

|                       |                             |                           |                    |
|-----------------------|-----------------------------|---------------------------|--------------------|
| <b>Client:</b>        | Langan                      | <b>WorkOrder:</b>         | 2507B65            |
| <b>Date Prepared:</b> | 07/18/2025                  | <b>BatchID:</b>           | 321730             |
| <b>Date Analyzed:</b> | 07/21/2025                  | <b>Extraction Method:</b> | SW5030B            |
| <b>Instrument:</b>    | GC38                        | <b>Analytical Method:</b> | SW8260D            |
| <b>Matrix:</b>        | Soil                        | <b>Unit:</b>              | mg/kg              |
| <b>Project:</b>       | 770651908; Northtown Campus | <b>Sample ID:</b>         | MB/LCS/LCSD-321730 |

### QC Summary Report for SW8260D

| Analyte                   | MB<br>Result | MDL | RL | SPK<br>Val | MB IS/SS<br>%REC | MB IS/SS<br>Limits |
|---------------------------|--------------|-----|----|------------|------------------|--------------------|
| <b>Surrogate Recovery</b> |              |     |    |            |                  |                    |
| Dibromofluoromethane      | 0.11         |     |    | 0.125      | 88               | 70-140             |
| Toluene-d8                | 0.14         |     |    | 0.125      | 110              | 70-140             |
| 4-BFB                     | 0.012        |     |    | 0.0125     | 99               | 70-140             |
| Benzene-d6                | 0.11         |     |    | 0.1        | 111              | 70-140             |
| Ethylbenzene-d10          | 0.12         |     |    | 0.1        | 123              | 70-140             |
| 1,2-DCB-d4                | 0.081        |     |    | 0.1        | 81               | 70-140             |

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/18/2025  
**Date Analyzed:** 07/21/2025  
**Instrument:** GC38  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**BatchID:** 321730  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg  
**Sample ID:** MB/LCS/LCSD-321730

### QC Summary Report for SW8260D

| Analyte                       | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD   | RPD Limit |
|-------------------------------|------------|-------------|---------|----------|-----------|-----------------|-------|-----------|
| Acetone                       | 0.25       | 0.26        | 0.20    | 125      | 128       | 60-140          | 2.30  | 30        |
| tert-Amyl methyl ether (TAME) | 0.017      | 0.017       | 0.020   | 84       | 86        | 50-140          | 2.07  | 30        |
| Benzene                       | 0.019      | 0.019       | 0.020   | 93       | 96        | 60-140          | 2.25  | 30        |
| Bromobenzene                  | 0.022      | 0.022       | 0.020   | 109      | 111       | 60-140          | 2.47  | 30        |
| Bromochloromethane            | 0.019      | 0.019       | 0.020   | 94       | 97        | 60-140          | 3.30  | 30        |
| Bromodichloromethane          | 0.018      | 0.018       | 0.020   | 88       | 89        | 60-140          | 2.08  | 30        |
| Bromoform                     | 0.015      | 0.016       | 0.020   | 76       | 78        | 40-140          | 2.18  | 30        |
| Bromomethane                  | 0.020      | 0.021       | 0.020   | 102      | 105       | 30-140          | 2.67  | 30        |
| 2-Butanone (MEK)              | 0.071      | 0.071       | 0.080   | 89       | 88        | 50-140          | 1.11  | 30        |
| t-Butyl alcohol (TBA)         | 0.082      | 0.082       | 0.080   | 103      | 103       | 50-140          | 0.439 | 30        |
| n-Butyl benzene               | 0.029      | 0.029       | 0.020   | 143      | 146       | 60-150          | 1.43  | 30        |
| sec-Butyl benzene             | 0.030      | 0.030       | 0.020   | 149      | 150       | 60-150          | 0.509 | 30        |
| tert-Butyl benzene            | 0.027      | 0.028       | 0.020   | 136      | 138       | 60-140          | 1.37  | 30        |
| Carbon Disulfide              | 0.021      | 0.022       | 0.020   | 106      | 109       | 50-140          | 2.01  | 30        |
| Carbon Tetrachloride          | 0.020      | 0.021       | 0.020   | 101      | 104       | 60-140          | 2.43  | 30        |
| Chlorobenzene                 | 0.020      | 0.020       | 0.020   | 100      | 102       | 60-140          | 2.45  | 30        |
| Chloroethane                  | 0.019      | 0.019       | 0.020   | 93       | 94        | 50-140          | 0.243 | 30        |
| Chloroform                    | 0.020      | 0.021       | 0.020   | 101      | 103       | 60-140          | 2.50  | 30        |
| Chloromethane                 | 0.016      | 0.017       | 0.020   | 81       | 84        | 20-140          | 3.46  | 30        |
| 2-Chlorotoluene               | 0.024      | 0.025       | 0.020   | 119      | 123       | 60-140          | 3.28  | 30        |
| 4-Chlorotoluene               | 0.023      | 0.024       | 0.020   | 115      | 121       | 60-140          | 5.43  | 30        |
| Dibromochloromethane          | 0.018      | 0.019       | 0.020   | 92       | 94        | 50-140          | 2.71  | 30        |
| 1,2-Dibromo-3-chloropropane   | 0.010      | 0.011       | 0.010   | 102      | 106       | 30-140          | 3.87  | 30        |
| 1,2-Dibromoethane (EDB)       | 0.011      | 0.012       | 0.010   | 112      | 115       | 40-140          | 3.11  | 30        |
| Dibromomethane                | 0.018      | 0.018       | 0.020   | 89       | 90        | 60-140          | 1.31  | 30        |
| 1,2-Dichlorobenzene           | 0.018      | 0.018       | 0.020   | 90       | 92        | 60-140          | 2.27  | 30        |
| 1,3-Dichlorobenzene           | 0.021      | 0.022       | 0.020   | 107      | 108       | 60-140          | 1.19  | 30        |
| 1,4-Dichlorobenzene           | 0.021      | 0.021       | 0.020   | 103      | 105       | 60-140          | 2.17  | 30        |
| Dichlorodifluoromethane       | 0.010      | 0.011       | 0.020   | 51       | 53        | 10-140          | 4.32  | 30        |
| 1,1-Dichloroethane            | 0.020      | 0.020       | 0.020   | 98       | 100       | 60-140          | 2.08  | 30        |
| 1,2-Dichloroethane (1,2-DCA)  | 0.018      | 0.018       | 0.020   | 89       | 91        | 60-140          | 1.77  | 30        |
| 1,1-Dichloroethene            | 0.021      | 0.021       | 0.020   | 104      | 107       | 60-140          | 2.46  | 30        |
| cis-1,2-Dichloroethene        | 0.020      | 0.020       | 0.020   | 98       | 100       | 60-140          | 2.42  | 30        |
| trans-1,2-Dichloroethene      | 0.020      | 0.020       | 0.020   | 101      | 102       | 60-140          | 1.78  | 30        |
| 1,2-Dichloropropane           | 0.018      | 0.019       | 0.020   | 92       | 94        | 60-140          | 2.17  | 30        |
| 1,3-Dichloropropane           | 0.020      | 0.020       | 0.020   | 100      | 102       | 60-140          | 2.34  | 30        |
| 2,2-Dichloropropane           | 0.022      | 0.022       | 0.020   | 108      | 111       | 60-140          | 3.40  | 30        |
| 1,1-Dichloropropene           | 0.020      | 0.021       | 0.020   | 102      | 104       | 60-140          | 2.50  | 30        |

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/18/2025  
**Date Analyzed:** 07/21/2025  
**Instrument:** GC38  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**BatchID:** 321730  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg  
**Sample ID:** MB/LCS/LCSD-321730

### QC Summary Report for SW8260D

| Analyte                       | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD   | RPD Limit |
|-------------------------------|------------|-------------|---------|----------|-----------|-----------------|-------|-----------|
| cis-1,3-Dichloropropene       | 0.021      | 0.022       | 0.020   | 106      | 109       | 60-140          | 3.05  | 30        |
| trans-1,3-Dichloropropene     | 0.020      | 0.021       | 0.020   | 100      | 103       | 60-140          | 2.64  | 30        |
| Diisopropyl ether (DIPE)      | 0.017      | 0.017       | 0.020   | 86       | 87        | 60-140          | 2.02  | 30        |
| Ethylbenzene                  | 0.022      | 0.023       | 0.020   | 108      | 113       | 60-140          | 4.13  | 30        |
| Ethyl tert-butyl ether (ETBE) | 0.017      | 0.018       | 0.020   | 87       | 89        | 60-140          | 1.77  | 30        |
| Freon 113                     | 0.018      | 0.019       | 0.020   | 91       | 94        | 50-140          | 3.30  | 30        |
| Hexachlorobutadiene           | 0.028      | 0.028       | 0.020   | 141,F2   | 142,F2    | 60-140          | 0.801 | 30        |
| Hexachloroethane              | 0.024      | 0.024       | 0.020   | 120      | 122       | 60-140          | 2.15  | 30        |
| 2-Hexanone                    | 0.019      | 0.019       | 0.020   | 93       | 97        | 40-140          | 4.41  | 30        |
| Isopropylbenzene              | 0.029      | 0.030       | 0.020   | 145,F2   | 148,F2    | 60-140          | 1.68  | 30        |
| 4-Isopropyl toluene           | 0.028      | 0.029       | 0.020   | 139      | 143       | 60-150          | 2.86  | 30        |
| Methyl-t-butyl ether (MTBE)   | 0.018      | 0.018       | 0.020   | 89       | 92        | 50-140          | 2.63  | 30        |
| Methylene chloride            | 0.030      | 0.030       | 0.020   | 149,F2   | 152,F2    | 60-140          | 1.53  | 30        |
| 4-Methyl-2-pentanone (MIBK)   | 0.018      | 0.019       | 0.020   | 87       | 93        | 50-140          | 5.96  | 30        |
| Naphthalene                   | 0.010      | 0.011       | 0.020   | 52       | 53        | 30-140          | 3.05  | 30        |
| n-Propyl benzene              | 0.027      | 0.028       | 0.020   | 137      | 141,F2    | 60-140          | 2.68  | 30        |
| Styrene                       | 0.017      | 0.018       | 0.020   | 87       | 91        | 60-140          | 4.39  | 30        |
| 1,1,1,2-Tetrachloroethane     | 0.020      | 0.020       | 0.020   | 99       | 102       | 60-140          | 2.63  | 30        |
| 1,1,2,2-Tetrachloroethane     | 0.022      | 0.022       | 0.020   | 108      | 111       | 40-140          | 2.84  | 30        |
| Tetrachloroethene             | 0.024      | 0.025       | 0.020   | 119      | 123       | 60-140          | 3.40  | 30        |
| Toluene                       | 0.021      | 0.022       | 0.020   | 107      | 109       | 60-140          | 2.64  | 30        |
| 1,2,3-Trichlorobenzene        | 0.013      | 0.013       | 0.020   | 63       | 66        | 40-140          | 3.39  | 30        |
| 1,2,4-Trichlorobenzene        | 0.018      | 0.018       | 0.020   | 91       | 90        | 50-140          | 0.601 | 30        |
| 1,1,1-Trichloroethane         | 0.020      | 0.021       | 0.020   | 102      | 105       | 60-140          | 3.19  | 30        |
| 1,1,2-Trichloroethane         | 0.020      | 0.021       | 0.020   | 100      | 103       | 60-140          | 2.99  | 30        |
| Trichloroethene               | 0.021      | 0.021       | 0.020   | 103      | 106       | 60-140          | 2.60  | 30        |
| Trichlorofluoromethane        | 0.019      | 0.020       | 0.020   | 97       | 99        | 50-140          | 2.31  | 30        |
| 1,2,3-Trichloropropane        | 0.012      | 0.012       | 0.010   | 115      | 117       | 60-130          | 1.39  | 30        |
| 1,2,4-Trimethylbenzene        | 0.024      | 0.024       | 0.020   | 120      | 122       | 30-140          | 2.40  | 30        |
| 1,3,5-Trimethylbenzene        | 0.027      | 0.027       | 0.020   | 133      | 135       | 60-140          | 1.38  | 30        |
| Vinyl Chloride                | 0.0091     | 0.0094      | 0.010   | 91       | 94        | 30-140          | 2.30  | 30        |
| m,p-Xylene                    | 0.042      | 0.044       | 0.040   | 105      | 109       | 60-140          | 3.88  | 30        |
| o-Xylene                      | 0.020      | 0.020       | 0.020   | 98       | 101       | 60-140          | 3.29  | 30        |

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/18/2025  
**Date Analyzed:** 07/21/2025  
**Instrument:** GC38  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**BatchID:** 321730  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg  
**Sample ID:** MB/LCS/LCSD-321730

### QC Summary Report for SW8260D

| Analyte                   | LCS<br>Result | LCSD<br>Result | SPK<br>Val | LCS<br>%REC | LCSD<br>%REC | LCS/LCSD<br>Limits | RPD    | RPD<br>Limit |
|---------------------------|---------------|----------------|------------|-------------|--------------|--------------------|--------|--------------|
| <b>Surrogate Recovery</b> |               |                |            |             |              |                    |        |              |
| Dibromofluoromethane      | 0.11          | 0.11           | 0.12       | 91          | 91           | 70-140             | 0.0466 | 30           |
| Toluene-d8                | 0.14          | 0.14           | 0.12       | 111         | 111          | 70-140             | 0.568  | 30           |
| 4-BFB                     | 0.013         | 0.013          | 0.012      | 108         | 105          | 70-140             | 2.42   | 30           |
| Benzene-d6                | 0.10          | 0.10           | 0.10       | 101         | 103          | 70-140             | 1.80   | 30           |
| Ethylbenzene-d10          | 0.12          | 0.13           | 0.10       | 122         | 125          | 70-140             | 2.88   | 30           |
| 1,2-DCB-d4                | 0.084         | 0.086          | 0.10       | 84          | 86           | 70-140             | 2.72   | 30           |



## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/21/2025  
**Date Analyzed:** 07/21/2025  
**Instrument:** GC18  
**Matrix:** Water  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**BatchID:** 321801  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-321801

### QC Summary Report for SW8260D

| Analyte                       | MB Result | MDL    | RL    | SPK Val | MB IS/SS %REC | MB IS/SS Limits |
|-------------------------------|-----------|--------|-------|---------|---------------|-----------------|
| Acetone                       | ND        | 6.7    | 40    | -       | -             | -               |
| tert-Amyl methyl ether (TAME) | ND        | 0.13   | 0.50  | -       | -             | -               |
| Benzene                       | ND        | 0.035  | 0.20  | -       | -             | -               |
| Bromobenzene                  | ND        | 0.11   | 0.50  | -       | -             | -               |
| Bromochloromethane            | ND        | 0.21   | 0.50  | -       | -             | -               |
| Bromodichloromethane          | ND        | 0.035  | 0.050 | -       | -             | -               |
| Bromoform                     | ND        | 0.24   | 0.50  | -       | -             | -               |
| Bromomethane                  | ND        | 0.25   | 0.50  | -       | -             | -               |
| 2-Butanone (MEK)              | ND        | 1.4    | 5.0   | -       | -             | -               |
| t-Butyl alcohol (TBA)         | ND        | 1.5    | 5.0   | -       | -             | -               |
| n-Butyl benzene               | ND        | 0.16   | 0.50  | -       | -             | -               |
| sec-Butyl benzene             | ND        | 0.10   | 0.50  | -       | -             | -               |
| tert-Butyl benzene            | ND        | 0.17   | 0.50  | -       | -             | -               |
| Carbon Disulfide              | ND        | 0.12   | 0.50  | -       | -             | -               |
| Carbon Tetrachloride          | ND        | 0.034  | 0.050 | -       | -             | -               |
| Chlorobenzene                 | ND        | 0.095  | 0.50  | -       | -             | -               |
| Chloroethane                  | ND        | 0.25   | 0.50  | -       | -             | -               |
| Chloroform                    | ND        | 0.043  | 0.10  | -       | -             | -               |
| Chloromethane                 | ND        | 0.16   | 0.50  | -       | -             | -               |
| 2-Chlorotoluene               | ND        | 0.12   | 0.50  | -       | -             | -               |
| 4-Chlorotoluene               | ND        | 0.099  | 0.50  | -       | -             | -               |
| Dibromochloromethane          | ND        | 0.073  | 0.15  | -       | -             | -               |
| 1,2-Dibromo-3-chloropropane   | ND        | 0.0079 | 0.020 | -       | -             | -               |
| 1,2-Dibromoethane (EDB)       | ND        | 0.016  | 0.040 | -       | -             | -               |
| Dibromomethane                | ND        | 0.17   | 0.50  | -       | -             | -               |
| 1,2-Dichlorobenzene           | ND        | 0.10   | 0.50  | -       | -             | -               |
| 1,3-Dichlorobenzene           | ND        | 0.14   | 0.50  | -       | -             | -               |
| 1,4-Dichlorobenzene           | ND        | 0.089  | 0.50  | -       | -             | -               |
| Dichlorodifluoromethane       | ND        | 0.16   | 0.50  | -       | -             | -               |
| 1,1-Dichloroethane            | ND        | 0.14   | 0.50  | -       | -             | -               |
| 1,2-Dichloroethane (1,2-DCA)  | ND        | 0.0093 | 0.020 | -       | -             | -               |
| 1,1-Dichloroethene            | ND        | 0.0058 | 0.010 | -       | -             | -               |
| cis-1,2-Dichloroethene        | ND        | 0.14   | 0.50  | -       | -             | -               |
| trans-1,2-Dichloroethene      | ND        | 0.15   | 0.50  | -       | -             | -               |
| 1,2-Dichloropropane           | ND        | 0.039  | 0.10  | -       | -             | -               |
| 1,3-Dichloropropane           | ND        | 0.16   | 0.50  | -       | -             | -               |
| 2,2-Dichloropropane           | ND        | 0.17   | 0.50  | -       | -             | -               |

(Cont.)



## Quality Control Report

|                       |                             |                           |                    |
|-----------------------|-----------------------------|---------------------------|--------------------|
| <b>Client:</b>        | Langan                      | <b>WorkOrder:</b>         | 2507B65            |
| <b>Date Prepared:</b> | 07/21/2025                  | <b>BatchID:</b>           | 321801             |
| <b>Date Analyzed:</b> | 07/21/2025                  | <b>Extraction Method:</b> | SW5030B            |
| <b>Instrument:</b>    | GC18                        | <b>Analytical Method:</b> | SW8260D            |
| <b>Matrix:</b>        | Water                       | <b>Unit:</b>              | µg/L               |
| <b>Project:</b>       | 770651908; Northtown Campus | <b>Sample ID:</b>         | MB/LCS/LCSD-321801 |

### QC Summary Report for SW8260D

| Analyte                       | MB Result | MDL    | RL     | SPK Val | MB IS/SS %REC | MB IS/SS Limits |
|-------------------------------|-----------|--------|--------|---------|---------------|-----------------|
| 1,1-Dichloropropene           | ND        | 0.11   | 0.50   | -       | -             | -               |
| cis-1,3-Dichloropropene       | ND        | 0.13   | 0.50   | -       | -             | -               |
| trans-1,3-Dichloropropene     | ND        | 0.20   | 0.50   | -       | -             | -               |
| Diisopropyl ether (DIPE)      | ND        | 0.16   | 0.50   | -       | -             | -               |
| Ethylbenzene                  | ND        | 0.10   | 0.50   | -       | -             | -               |
| Ethyl tert-butyl ether (ETBE) | ND        | 0.15   | 0.50   | -       | -             | -               |
| Freon 113                     | ND        | 0.15   | 0.50   | -       | -             | -               |
| Hexachlorobutadiene           | ND        | 0.064  | 0.50   | -       | -             | -               |
| Hexachloroethane              | ND        | 0.078  | 0.20   | -       | -             | -               |
| 2-Hexanone                    | ND        | 0.23   | 0.50   | -       | -             | -               |
| Isopropylbenzene              | ND        | 0.10   | 0.50   | -       | -             | -               |
| 4-Isopropyl toluene           | ND        | 0.19   | 0.50   | -       | -             | -               |
| Methyl-t-butyl ether (MTBE)   | ND        | 0.15   | 0.50   | -       | -             | -               |
| Methylene chloride            | ND        | 1.5    | 2.0    | -       | -             | -               |
| 4-Methyl-2-pentanone (MIBK)   | ND        | 0.22   | 0.50   | -       | -             | -               |
| Naphthalene                   | ND        | 0.17   | 0.30   | -       | -             | -               |
| n-Propyl benzene              | ND        | 0.11   | 0.50   | -       | -             | -               |
| Styrene                       | ND        | 0.22   | 2.0    | -       | -             | -               |
| 1,1,1,2-Tetrachloroethane     | ND        | 0.086  | 0.50   | -       | -             | -               |
| 1,1,2,2-Tetrachloroethane     | ND        | 0.015  | 0.020  | -       | -             | -               |
| Tetrachloroethene             | ND        | 0.036  | 0.20   | -       | -             | -               |
| Toluene                       | ND        | 0.10   | 0.50   | -       | -             | -               |
| 1,2,3-Trichlorobenzene        | ND        | 0.17   | 0.50   | -       | -             | -               |
| 1,2,4-Trichlorobenzene        | ND        | 0.13   | 0.50   | -       | -             | -               |
| 1,1,1-Trichloroethane         | ND        | 0.13   | 0.50   | -       | -             | -               |
| 1,1,2-Trichloroethane         | ND        | 0.032  | 0.10   | -       | -             | -               |
| Trichloroethene               | ND        | 0.034  | 0.10   | -       | -             | -               |
| Trichlorofluoromethane        | ND        | 0.14   | 0.50   | -       | -             | -               |
| 1,2,3-Trichloropropane        | ND        | 0.0036 | 0.0050 | -       | -             | -               |
| 1,2,4-Trimethylbenzene        | ND        | 0.10   | 0.50   | -       | -             | -               |
| 1,3,5-Trimethylbenzene        | ND        | 0.096  | 0.50   | -       | -             | -               |
| Vinyl Chloride                | ND        | 0.0044 | 0.0050 | -       | -             | -               |
| m,p-Xylene                    | ND        | 0.22   | 1.0    | -       | -             | -               |
| o-Xylene                      | ND        | 0.12   | 0.50   | -       | -             | -               |

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## Quality Control Report

|                       |                             |                           |                    |
|-----------------------|-----------------------------|---------------------------|--------------------|
| <b>Client:</b>        | Langan                      | <b>WorkOrder:</b>         | 2507B65            |
| <b>Date Prepared:</b> | 07/21/2025                  | <b>BatchID:</b>           | 321801             |
| <b>Date Analyzed:</b> | 07/21/2025                  | <b>Extraction Method:</b> | SW5030B            |
| <b>Instrument:</b>    | GC18                        | <b>Analytical Method:</b> | SW8260D            |
| <b>Matrix:</b>        | Water                       | <b>Unit:</b>              | µg/L               |
| <b>Project:</b>       | 770651908; Northtown Campus | <b>Sample ID:</b>         | MB/LCS/LCSD-321801 |

### QC Summary Report for SW8260D

| Analyte                   | MB<br>Result | MDL | RL | SPK<br>Val | MB IS/SS<br>%REC | MB IS/SS<br>Limits |
|---------------------------|--------------|-----|----|------------|------------------|--------------------|
| <b>Surrogate Recovery</b> |              |     |    |            |                  |                    |
| Dibromofluoromethane      | 22           |     |    | 25         | 86               | 70-130             |
| Toluene-d8                | 24           |     |    | 25         | 97               | 70-130             |
| 4-BFB                     | 1.9          |     |    | 2.5        | 77               | 70-130             |





## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/21/2025  
**Date Analyzed:** 07/21/2025  
**Instrument:** GC18  
**Matrix:** Water  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**BatchID:** 321801  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-321801

### QC Summary Report for SW8260D

| Analyte                       | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD    | RPD Limit |
|-------------------------------|------------|-------------|---------|----------|-----------|-----------------|--------|-----------|
| Acetone                       | 34         | 35          | 40      | 86       | 88        | 60-130          | 1.93   | 20        |
| tert-Amyl methyl ether (TAME) | 3.6        | 3.6         | 4       | 89       | 89        | 60-130          | 0.0488 | 20        |
| Benzene                       | 3.7        | 3.7         | 4       | 93       | 93        | 65-130          | 0.706  | 20        |
| Bromobenzene                  | 4.0        | 4.0         | 4       | 100      | 99        | 60-130          | 1.13   | 20        |
| Bromochloromethane            | 4.1        | 4.1         | 4       | 103      | 104       | 65-130          | 0.499  | 20        |
| Bromodichloromethane          | 3.7        | 3.7         | 4       | 92       | 92        | 60-130          | 0.740  | 20        |
| Bromoform                     | 3.7        | 3.7         | 4       | 94       | 94        | 70-130          | 0.0905 | 20        |
| Bromomethane                  | 4.3        | 4.0         | 4       | 108      | 99        | 50-130          | 9.18   | 20        |
| 2-Butanone (MEK)              | 14         | 14          | 16      | 91       | 91        | 60-130          | 0.0113 | 20        |
| t-Butyl alcohol (TBA)         | 11         | 11          | 16      | 70       | 72        | 50-130          | 2.30   | 20        |
| n-Butyl benzene               | 4.6        | 4.5         | 4       | 114      | 112       | 60-130          | 1.23   | 20        |
| sec-Butyl benzene             | 4.4        | 4.3         | 4       | 109      | 108       | 60-130          | 0.991  | 20        |
| tert-Butyl benzene            | 4.0        | 4.0         | 4       | 99       | 100       | 60-130          | 1.01   | 20        |
| Carbon Disulfide              | 4.2        | 4.2         | 4       | 105      | 106       | 60-130          | 1.07   | 20        |
| Carbon Tetrachloride          | 3.7        | 3.6         | 4       | 94       | 90        | 70-130          | 3.80   | 20        |
| Chlorobenzene                 | 4.5        | 4.4         | 4       | 112      | 110       | 65-130          | 1.43   | 20        |
| Chloroethane                  | 3.9        | 4.1         | 4       | 97       | 103       | 60-140          | 5.17   | 20        |
| Chloroform                    | 3.6        | 3.6         | 4       | 91       | 91        | 70-130          | 0.249  | 20        |
| Chloromethane                 | 3.1        | 3.2         | 4       | 78       | 81        | 50-130          | 2.98   | 20        |
| 2-Chlorotoluene               | 4.2        | 4.0         | 4       | 105      | 100       | 60-130          | 4.25   | 20        |
| 4-Chlorotoluene               | 4.3        | 4.2         | 4       | 107      | 105       | 60-130          | 2.38   | 20        |
| Dibromochloromethane          | 3.9        | 3.8         | 4       | 97       | 95        | 70-130          | 2.58   | 20        |
| 1,2-Dibromo-3-chloropropane   | 1.8        | 1.8         | 2       | 91       | 89        | 50-130          | 2.39   | 20        |
| 1,2-Dibromoethane (EDB)       | 1.9        | 1.9         | 2       | 97       | 95        | 60-130          | 1.86   | 20        |
| Dibromomethane                | 3.8        | 3.9         | 4       | 96       | 96        | 60-130          | 0.164  | 20        |
| 1,2-Dichlorobenzene           | 4.3        | 4.2         | 4       | 106      | 104       | 65-130          | 2.09   | 20        |
| 1,3-Dichlorobenzene           | 4.2        | 4.1         | 4       | 105      | 103       | 70-130          | 2.23   | 20        |
| 1,4-Dichlorobenzene           | 4.3        | 4.2         | 4       | 107      | 105       | 65-130          | 1.50   | 20        |
| Dichlorodifluoromethane       | 2.6        | 2.5         | 4       | 64       | 61        | 40-140          | 3.89   | 20        |
| 1,1-Dichloroethane            | 4.0        | 4.0         | 4       | 100      | 100       | 70-130          | 0.0943 | 20        |
| 1,2-Dichloroethane (1,2-DCA)  | 3.2        | 3.2         | 4       | 80       | 81        | 70-130          | 1.16   | 20        |
| 1,1-Dichloroethene            | 3.7        | 3.6         | 4       | 92       | 91        | 60-130          | 1.02   | 20        |
| cis-1,2-Dichloroethene        | 4.2        | 4.1         | 4       | 104      | 103       | 60-130          | 0.829  | 20        |
| trans-1,2-Dichloroethene      | 4.2        | 4.1         | 4       | 106      | 103       | 70-130          | 2.32   | 20        |
| 1,2-Dichloropropane           | 4.0        | 4.0         | 4       | 100      | 101       | 60-130          | 0.202  | 20        |
| 1,3-Dichloropropane           | 4.1        | 4.1         | 4       | 101      | 102       | 60-130          | 0.588  | 20        |
| 2,2-Dichloropropane           | 3.6        | 3.7         | 4       | 90       | 92        | 60-130          | 1.50   | 20        |

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/21/2025  
**Date Analyzed:** 07/21/2025  
**Instrument:** GC18  
**Matrix:** Water  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**BatchID:** 321801  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-321801

### QC Summary Report for SW8260D

| Analyte                       | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD   | RPD Limit |
|-------------------------------|------------|-------------|---------|----------|-----------|-----------------|-------|-----------|
| 1,1-Dichloropropene           | 4.0        | 4.0         | 4       | 101      | 99        | 60-130          | 1.45  | 20        |
| cis-1,3-Dichloropropene       | 4.2        | 4.1         | 4       | 105      | 102       | 60-130          | 2.71  | 20        |
| trans-1,3-Dichloropropene     | 3.9        | 3.9         | 4       | 98       | 97        | 60-130          | 1.21  | 20        |
| Diisopropyl ether (DIPE)      | 3.9        | 4.0         | 4       | 97       | 99        | 60-130          | 1.40  | 20        |
| Ethylbenzene                  | 4.4        | 4.4         | 4       | 109      | 109       | 60-130          | 0.142 | 20        |
| Ethyl tert-butyl ether (ETBE) | 3.6        | 3.6         | 4       | 90       | 91        | 60-130          | 0.737 | 20        |
| Freon 113                     | 4.1        | 4.0         | 4       | 102      | 101       | 60-130          | 0.923 | 20        |
| Hexachlorobutadiene           | 3.9        | 3.7         | 4       | 97       | 93        | 60-130          | 3.42  | 20        |
| Hexachloroethane              | 4.2        | 4.0         | 4       | 104      | 99        | 50-130          | 4.62  | 20        |
| 2-Hexanone                    | 2.9        | 3.0         | 4       | 74       | 75        | 50-130          | 1.38  | 20        |
| Isopropylbenzene              | 4.1        | 4.1         | 4       | 103      | 102       | 60-130          | 1.28  | 20        |
| 4-Isopropyl toluene           | 4.3        | 4.3         | 4       | 109      | 108       | 60-130          | 0.198 | 20        |
| Methyl-t-butyl ether (MTBE)   | 3.5        | 3.5         | 4       | 88       | 87        | 60-130          | 0.406 | 20        |
| Methylene chloride            | 5.5        | 5.8         | 4       | 137,F2   | 145,F2    | 60-130          | 5.83  | 20        |
| 4-Methyl-2-pentanone (MIBK)   | 3.3        | 3.5         | 4       | 82       | 87        | 50-130          | 5.16  | 20        |
| Naphthalene                   | 4.4        | 4.2         | 4       | 109      | 105       | 60-130          | 3.41  | 20        |
| n-Propyl benzene              | 4.2        | 4.2         | 4       | 106      | 105       | 60-130          | 1.29  | 20        |
| Styrene                       | 4.3        | 4.3         | 4       | 108      | 107       | 60-130          | 0.662 | 20        |
| 1,1,1,2-Tetrachloroethane     | 4.0        | 3.9         | 4       | 101      | 99        | 60-130          | 2.28  | 20        |
| 1,1,2,2-Tetrachloroethane     | 3.8        | 3.8         | 4       | 96       | 94        | 60-130          | 1.35  | 20        |
| Tetrachloroethene             | 3.9        | 3.8         | 4       | 96       | 94        | 70-130          | 2.08  | 20        |
| Toluene                       | 4.2        | 4.2         | 4       | 105      | 104       | 70-130          | 1.20  | 20        |
| 1,2,3-Trichlorobenzene        | 4.5        | 4.2         | 4       | 111      | 105       | 60-130          | 6.17  | 20        |
| 1,2,4-Trichlorobenzene        | 4.3        | 4.1         | 4       | 107      | 103       | 60-130          | 3.89  | 20        |
| 1,1,1-Trichloroethane         | 3.8        | 3.7         | 4       | 94       | 93        | 70-130          | 0.486 | 20        |
| 1,1,2-Trichloroethane         | 4.2        | 4.1         | 4       | 104      | 104       | 70-130          | 0.310 | 20        |
| Trichloroethene               | 4.0        | 4.0         | 4       | 101      | 101       | 65-130          | 0.129 | 20        |
| Trichlorofluoromethane        | 3.4        | 3.5         | 4       | 85       | 86        | 60-130          | 1.06  | 20        |
| 1,2,3-Trichloropropane        | 1.7        | 1.7         | 2       | 84       | 83        | 60-130          | 1.90  | 20        |
| 1,2,4-Trimethylbenzene        | 4.2        | 4.1         | 4       | 105      | 103       | 60-130          | 1.46  | 20        |
| 1,3,5-Trimethylbenzene        | 4.2        | 4.2         | 4       | 106      | 105       | 60-130          | 1.20  | 20        |
| Vinyl Chloride                | 1.9        | 1.9         | 2       | 95       | 97        | 60-130          | 2.99  | 20        |
| m,p-Xylene                    | 9.0        | 8.9         | 8       | 112      | 112       | 60-130          | 0.423 | 20        |
| o-Xylene                      | 4.2        | 4.2         | 4       | 105      | 105       | 60-130          | 0.109 | 20        |

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/21/2025  
**Date Analyzed:** 07/21/2025  
**Instrument:** GC18  
**Matrix:** Water  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**BatchID:** 321801  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-321801

### QC Summary Report for SW8260D

| Analyte                   | LCS<br>Result | LCSD<br>Result | SPK<br>Val | LCS<br>%REC | LCSD<br>%REC | LCS/LCSD<br>Limits | RPD   | RPD<br>Limit |
|---------------------------|---------------|----------------|------------|-------------|--------------|--------------------|-------|--------------|
| <b>Surrogate Recovery</b> |               |                |            |             |              |                    |       |              |
| Dibromofluoromethane      | 22            | 22             | 25         | 88          | 87           | 70-130             | 1.33  | 20           |
| Toluene-d8                | 24            | 24             | 25         | 96          | 96           | 70-130             | 0.528 | 20           |
| 4-BFB                     | 2.2           | 2.2            | 2.5        | 88          | 88           | 70-130             | 0.208 | 20           |



## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/22/2025  
**Date Analyzed:** 07/22/2025 - 07/23/2025  
**Instrument:** GC17, GC21  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**BatchID:** 321891  
**Extraction Method:** SW3550B  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS/LCSD-321891  
2507B65-001AMS/MSD

### QC Summary Report for SW8270E

| Analyte                       | MB Result | MDL     | RL     | SPK Val | MB IS/SS %REC | MB IS/SS Limits |
|-------------------------------|-----------|---------|--------|---------|---------------|-----------------|
| Acenaphthene                  | ND        | 0.00028 | 0.0013 | -       | -             | -               |
| Acenaphthylene                | ND        | 0.00035 | 0.0013 | -       | -             | -               |
| Acetochlor                    | ND        | 0.070   | 0.25   | -       | -             | -               |
| Anthracene                    | ND        | 0.00049 | 0.0013 | -       | -             | -               |
| Benzidine                     | ND        | 0.16    | 0.25   | -       | -             | -               |
| Benzo (a) anthracene          | ND        | 0.0054  | 0.012  | -       | -             | -               |
| Benzo (a) pyrene              | ND        | 0.00090 | 0.0013 | -       | -             | -               |
| Benzo (b) fluoranthene        | ND        | 0.00088 | 0.0025 | -       | -             | -               |
| Benzo (g,h,i) perylene        | ND        | 0.0010  | 0.0025 | -       | -             | -               |
| Benzo (k) fluoranthene        | ND        | 0.00088 | 0.0025 | -       | -             | -               |
| Benzoic Acid                  | ND        | 0.20    | 1.2    | -       | -             | -               |
| Benzyl Alcohol                | ND        | 0.36    | 1.2    | -       | -             | -               |
| 1,1-Biphenyl                  | ND        | 0.0028  | 0.0050 | -       | -             | -               |
| Bis (2-chloroethoxy) Methane  | ND        | 0.082   | 0.25   | -       | -             | -               |
| Bis (2-chloroethyl) Ether     | ND        | 0.00044 | 0.0013 | -       | -             | -               |
| Bis (2-chloroisopropyl) Ether | ND        | 0.0013  | 0.0025 | -       | -             | -               |
| Bis (2-ethylhexyl) Adipate    | ND        | 0.031   | 0.25   | -       | -             | -               |
| Bis (2-ethylhexyl) Phthalate  | ND        | 0.019   | 0.062  | -       | -             | -               |
| 4-Bromophenyl Phenyl Ether    | ND        | 0.088   | 0.25   | -       | -             | -               |
| Butylbenzyl Phthalate         | ND        | 0.0044  | 0.062  | -       | -             | -               |
| 4-Chloro-3-methylphenol       | ND        | 0.074   | 0.25   | -       | -             | -               |
| 4-Chloroaniline               | ND        | 0.00051 | 0.0013 | -       | -             | -               |
| 2-Chloronaphthalene           | ND        | 0.12    | 0.25   | -       | -             | -               |
| 2-Chlorophenol                | ND        | 0.0040  | 0.012  | -       | -             | -               |
| 4-Chlorophenyl Phenyl Ether   | ND        | 0.10    | 0.25   | -       | -             | -               |
| Chrysene                      | ND        | 0.00038 | 0.0013 | -       | -             | -               |
| Dibenzo (a,h) anthracene      | ND        | 0.0012  | 0.0025 | -       | -             | -               |
| Dibenzofuran                  | ND        | 0.00051 | 0.0013 | -       | -             | -               |
| Di-n-butyl Phthalate          | ND        | 0.0049  | 0.062  | -       | -             | -               |
| 1,2-Dichlorobenzene           | ND        | 0.098   | 0.25   | -       | -             | -               |
| 1,3-Dichlorobenzene           | ND        | 0.092   | 0.25   | -       | -             | -               |
| 1,4-Dichlorobenzene           | ND        | 0.078   | 0.25   | -       | -             | -               |
| 3,3-Dichlorobenzidine         | ND        | 0.00034 | 0.0013 | -       | -             | -               |
| 2,4-Dichlorophenol            | ND        | 0.0010  | 0.0025 | -       | -             | -               |
| Diethyl Phthalate             | ND        | 0.0048  | 0.012  | -       | -             | -               |
| 2,4-Dimethylphenol            | ND        | 0.017   | 0.25   | -       | -             | -               |
| Dimethyl Phthalate            | ND        | 0.00069 | 0.0025 | -       | -             | -               |
| 4,6-Dinitro-2-methylphenol    | ND        | 0.71    | 1.2    | -       | -             | -               |

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/22/2025  
**Date Analyzed:** 07/22/2025 - 07/23/2025  
**Instrument:** GC17, GC21  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**BatchID:** 321891  
**Extraction Method:** SW3550B  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS/LCSD-321891  
2507B65-001AMS/MSD

### QC Summary Report for SW8270E

| Analyte                         | MB Result | MDL     | RL     | SPK Val | MB IS/SS %REC | MB IS/SS Limits |
|---------------------------------|-----------|---------|--------|---------|---------------|-----------------|
| 2,4-Dinitrophenol               | ND        | 0.084   | 0.25   | -       | -             | -               |
| 2,4-Dinitrotoluene              | ND        | 0.0066  | 0.012  | -       | -             | -               |
| 2,6-Dichlorophenol              | ND        | 0.0041  | 0.012  | -       | -             | -               |
| 2,6-Dinitrotoluene              | ND        | 0.0072  | 0.012  | -       | -             | -               |
| Di-n-octyl Phthalate            | ND        | 0.20    | 0.62   | -       | -             | -               |
| 1,2-Diphenylhydrazine           | ND        | 0.072   | 0.25   | -       | -             | -               |
| Fluoranthene                    | ND        | 0.00069 | 0.0025 | -       | -             | -               |
| Fluorene                        | ND        | 0.00091 | 0.0025 | -       | -             | -               |
| Hexachlorobenzene               | ND        | 0.00029 | 0.0013 | -       | -             | -               |
| Hexachlorobutadiene             | ND        | 0.00033 | 0.0013 | -       | -             | -               |
| Hexachlorocyclopentadiene       | ND        | 0.37    | 1.2    | -       | -             | -               |
| Hexachloroethane                | ND        | 0.00084 | 0.0025 | -       | -             | -               |
| Indeno (1,2,3-cd) pyrene        | ND        | 0.0010  | 0.0025 | -       | -             | -               |
| Isophorone                      | ND        | 0.069   | 0.25   | -       | -             | -               |
| 1-Methylnaphthalene             | ND        | 0.00057 | 0.0013 | -       | -             | -               |
| 2-Methylnaphthalene             | ND        | 0.00052 | 0.0013 | -       | -             | -               |
| 2-Methylphenol (o-Cresol)       | ND        | 0.095   | 0.25   | -       | -             | -               |
| 3 & 4-Methylphenol (m,p-Cresol) | ND        | 0.091   | 0.25   | -       | -             | -               |
| Naphthalene                     | ND        | 0.00066 | 0.0025 | -       | -             | -               |
| 2-Nitroaniline                  | ND        | 0.32    | 1.2    | -       | -             | -               |
| 3-Nitroaniline                  | ND        | 0.090   | 1.2    | -       | -             | -               |
| 4-Nitroaniline                  | ND        | 0.21    | 1.2    | -       | -             | -               |
| Nitrobenzene                    | ND        | 0.074   | 0.25   | -       | -             | -               |
| 2-Nitrophenol                   | ND        | 0.51    | 1.2    | -       | -             | -               |
| 4-Nitrophenol                   | ND        | 0.090   | 1.2    | -       | -             | -               |
| N-Nitrosodimethylamine          | ND        | 0.081   | 0.25   | -       | -             | -               |
| N-Nitrosodi-n-propylamine       | ND        | 0.12    | 0.25   | -       | -             | -               |
| N-Nitrosodiphenylamine          | ND        | 0.083   | 0.25   | -       | -             | -               |
| Pentachlorophenol               | ND        | 0.020   | 0.062  | -       | -             | -               |
| Phenanthrene                    | ND        | 0.00044 | 0.0013 | -       | -             | -               |
| Phenol                          | ND        | 0.0027  | 0.010  | -       | -             | -               |
| Pyrene                          | ND        | 0.00030 | 0.0013 | -       | -             | -               |
| Pyridine                        | ND        | 0.034   | 0.25   | -       | -             | -               |
| 2,3,4,6-Tetrachlorophenol       | ND        | 0.099   | 0.25   | -       | -             | -               |
| 1,2,4-Trichlorobenzene          | ND        | 0.093   | 0.25   | -       | -             | -               |
| 2,4,5-Trichlorophenol           | ND        | 0.00089 | 0.0025 | -       | -             | -               |
| 2,4,6-Trichlorophenol           | ND        | 0.0016  | 0.0025 | -       | -             | -               |

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/22/2025  
**Date Analyzed:** 07/22/2025 - 07/23/2025  
**Instrument:** GC17, GC21  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**BatchID:** 321891  
**Extraction Method:** SW3550B  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS/LCSD-321891  
2507B65-001AMS/MSD

### QC Summary Report for SW8270E

| Analyte                   | MB<br>Result | MDL | RL | SPK<br>Val | MB IS/SS<br>%REC | MB IS/SS<br>Limits |
|---------------------------|--------------|-----|----|------------|------------------|--------------------|
| <b>Surrogate Recovery</b> |              |     |    |            |                  |                    |
| 2-Fluorophenol            | 1.1          |     |    | 1.25       | 87               | 60-130             |
| Phenol-d5                 | 1.1          |     |    | 1.25       | 85               | 50-130             |
| Nitrobenzene-d5           | 1.0          |     |    | 1.25       | 84               | 60-130             |
| 2-Fluorobiphenyl          | 1.0          |     |    | 1.25       | 84               | 60-130             |
| 2,4,6-Tribromophenol      | 0.63         |     |    | 1.25       | 50               | 50-130             |
| 4-Terphenyl-d14           | 1.1          |     |    | 1.25       | 85               | 50-130             |



## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/22/2025  
**Date Analyzed:** 07/22/2025 - 07/23/2025  
**Instrument:** GC17, GC21  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**BatchID:** 321891  
**Extraction Method:** SW3550B  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS/LCSD-321891  
2507B65-001AMS/MSD

### QC Summary Report for SW8270E

| Analyte                       | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD  | RPD Limit |
|-------------------------------|------------|-------------|---------|----------|-----------|-----------------|------|-----------|
| Acenaphthene                  | 0.046      | 0.057       | 0.062   | 74       | 91        | 60-130          | 20.6 | 30        |
| Acenaphthylene                | 0.042      | 0.052       | 0.062   | 67       | 84        | 60-130          | 22.4 | 30        |
| Acetochlor                    | 0.93       | 1.2         | 1.25    | 74       | 94        | 60-130          | 22.9 | 30        |
| Anthracene                    | 0.040      | 0.051       | 0.062   | 64       | 81        | 60-130          | 23.6 | 30        |
| Benzidine                     | 2.1        | 2.7         | 6.25    | 34       | 44        | 20-130          | 25.7 | 30        |
| Benzo (a) anthracene          | 0.047      | 0.060       | 0.062   | 75       | 96        | 70-130          | 24.4 | 30        |
| Benzo (a) pyrene              | 0.048      | 0.064       | 0.062   | 76       | 102       | 70-130          | 28.4 | 30        |
| Benzo (b) fluoranthene        | 0.056      | 0.074       | 0.062   | 89       | 118       | 60-130          | 27.9 | 30        |
| Benzo (g,h,i) perylene        | 0.047      | 0.060       | 0.062   | 75       | 97        | 70-130          | 24.8 | 30        |
| Benzo (k) fluoranthene        | 0.057      | 0.072       | 0.062   | 91       | 116       | 70-130          | 24.2 | 30        |
| Benzoic Acid                  | 2.9        | 3.2         | 6.25    | 46       | 51        | 15-130          | 11.7 | 30        |
| Benzyl Alcohol                | 5.0        | 5.8         | 6.25    | 80       | 92        | 70-130          | 14.5 | 30        |
| 1,1-Biphenyl                  | 0.099      | 0.12        | 0.12    | 79       | 98        | 60-130          | 21.8 | 30        |
| Bis (2-chloroethoxy) Methane  | 1.0        | 1.2         | 1.25    | 80       | 96        | 70-130          | 18.7 | 30        |
| Bis (2-chloroethyl) Ether     | 0.047      | 0.055       | 0.062   | 75       | 87        | 60-130          | 15.7 | 30        |
| Bis (2-chloroisopropyl) Ether | 0.049      | 0.061       | 0.062   | 78       | 98        | 60-130          | 23.1 | 30        |
| Bis (2-ethylhexyl) Adipate    | 0.99       | 1.3         | 1.25    | 79       | 101       | 60-130          | 24.7 | 30        |
| Bis (2-ethylhexyl) Phthalate  | 0.037      | 0.048       | 0.062   | 59,F5    | 77        | 60-130          | 27.2 | 30        |
| 4-Bromophenyl Phenyl Ether    | 0.87       | 1.1         | 1.25    | 69       | 84        | 60-130          | 19.3 | 30        |
| Butylbenzyl Phthalate         | 0.039      | 0.052       | 0.062   | 63       | 84        | 60-130          | 28.7 | 30        |
| 4-Chloro-3-methylphenol       | 1.0        | 1.3         | 1.25    | 82       | 101       | 70-130          | 21.4 | 30        |
| 4-Chloroaniline               | 0.043      | 0.053       | 0.062   | 69       | 85        | 40-130          | 20.2 | 30        |
| 2-Chloronaphthalene           | 1.0        | 1.2         | 1.25    | 80       | 99        | 60-130          | 20.8 | 30        |
| 2-Chlorophenol                | 0.047      | 0.055       | 0.062   | 75       | 88        | 60-130          | 16.0 | 30        |
| 4-Chlorophenyl Phenyl Ether   | 0.96       | 1.2         | 1.25    | 77       | 95        | 70-130          | 21.4 | 30        |
| Chrysene                      | 0.048      | 0.060       | 0.062   | 76       | 96        | 70-130          | 23.4 | 30        |
| Dibenzo (a,h) anthracene      | 0.048      | 0.065       | 0.062   | 77       | 103       | 70-130          | 29.0 | 30        |
| Dibenzofuran                  | 0.044      | 0.054       | 0.062   | 70       | 86        | 60-130          | 21.5 | 30        |
| Di-n-butyl Phthalate          | 0.041      | 0.052       | 0.062   | 65       | 84        | 60-130          | 24.8 | 30        |
| 1,2-Dichlorobenzene           | 0.95       | 1.1         | 1.25    | 76       | 88        | 60-130          | 14.4 | 30        |
| 1,3-Dichlorobenzene           | 0.96       | 1.1         | 1.25    | 77       | 88        | 60-130          | 14.0 | 30        |
| 1,4-Dichlorobenzene           | 0.95       | 1.1         | 1.25    | 76       | 89        | 60-130          | 15.7 | 30        |
| 3,3-Dichlorobenzidine         | 0.032      | 0.041       | 0.062   | 52       | 66        | 40-130          | 25.0 | 30        |
| 2,4-Dichlorophenol            | 0.048      | 0.059       | 0.062   | 77       | 95        | 60-130          | 20.7 | 30        |
| Diethyl Phthalate             | 0.051      | 0.064       | 0.062   | 81       | 103       | 70-130          | 23.9 | 30        |
| 2,4-Dimethylphenol            | 1.1        | 1.3         | 1.25    | 85       | 101       | 70-130          | 17.8 | 30        |
| Dimethyl Phthalate            | 0.044      | 0.055       | 0.062   | 70       | 88        | 70-130          | 23.2 | 30        |
| 4,6-Dinitro-2-methylphenol    | 3.7        | 4.3         | 6.25    | 59       | 68        | 20-130          | 13.9 | 30        |

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/22/2025  
**Date Analyzed:** 07/22/2025 - 07/23/2025  
**Instrument:** GC17, GC21  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**BatchID:** 321891  
**Extraction Method:** SW3550B  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS/LCSD-321891  
2507B65-001AMS/MSD

### QC Summary Report for SW8270E

| Analyte                         | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD     | RPD Limit |
|---------------------------------|------------|-------------|---------|----------|-----------|-----------------|---------|-----------|
| 2,4-Dinitrophenol               | 0.44       | 0.47        | 1.75    | 25       | 27        | 15-130          | 7.48    | 30        |
| 2,4-Dinitrotoluene              | 0.053      | 0.066       | 0.062   | 85       | 105       | 70-130          | 21.4    | 30        |
| 2,6-Dichlorophenol              | 0.048      | 0.058       | 0.062   | 77       | 94        | 60-130          | 19.0    | 30        |
| 2,6-Dinitrotoluene              | 0.047      | 0.058       | 0.062   | 75       | 94        | 60-130          | 22.4    | 30        |
| Di-n-octyl Phthalate            | 1.2        | 1.7         | 1.25    | 97       | 132,F5    | 60-130          | 30.1,F2 | 30        |
| 1,2-Diphenylhydrazine           | 0.94       | 1.2         | 1.25    | 75       | 93        | 60-130          | 21.6    | 30        |
| Fluoranthene                    | 0.041      | 0.052       | 0.062   | 65,F5    | 83        | 70-130          | 24.1    | 30        |
| Fluorene                        | 0.050      | 0.064       | 0.062   | 81       | 102       | 60-130          | 23.4    | 30        |
| Hexachlorobenzene               | 0.046      | 0.057       | 0.062   | 73       | 91        | 70-130          | 21.4    | 30        |
| Hexachlorobutadiene             | 0.048      | 0.058       | 0.062   | 77       | 93        | 70-130          | 18.6    | 30        |
| Hexachlorocyclopentadiene       | 4.3        | 5.5         | 6.25    | 70       | 88        | 60-130          | 23.7    | 30        |
| Hexachloroethane                | 0.047      | 0.055       | 0.062   | 75       | 89        | 70-130          | 16.2    | 30        |
| Indeno (1,2,3-cd) pyrene        | 0.047      | 0.062       | 0.062   | 76       | 100       | 70-130          | 27.4    | 30        |
| Isophorone                      | 0.91       | 1.1         | 1.25    | 73       | 90        | 60-130          | 21.1    | 30        |
| 1-Methylnaphthalene             | 0.046      | 0.057       | 0.062   | 74       | 91        | 70-130          | 20.1    | 30        |
| 2-Methylnaphthalene             | 0.046      | 0.057       | 0.062   | 74       | 91        | 70-130          | 20.1    | 30        |
| 2-Methylphenol (o-Cresol)       | 1.0        | 1.2         | 1.25    | 81       | 93        | 60-130          | 14.5    | 30        |
| 3 & 4-Methylphenol (m,p-Cresol) | 1.0        | 1.2         | 1.25    | 81       | 94        | 60-130          | 15.2    | 30        |
| Naphthalene                     | 0.049      | 0.059       | 0.062   | 78       | 94        | 70-130          | 19.1    | 30        |
| 2-Nitroaniline                  | 5.4        | 6.8         | 6.25    | 86       | 109       | 70-130          | 23.3    | 30        |
| 3-Nitroaniline                  | 5.4        | 6.8         | 6.25    | 86       | 108       | 50-130          | 23.2    | 30        |
| 4-Nitroaniline                  | 5.4        | 6.8         | 6.25    | 87       | 108       | 60-130          | 21.5    | 30        |
| Nitrobenzene                    | 1.0        | 1.3         | 1.25    | 83       | 101       | 60-130          | 19.6    | 30        |
| 2-Nitrophenol                   | 5.3        | 6.5         | 6.25    | 86       | 104       | 70-130          | 19.9    | 30        |
| 4-Nitrophenol                   | 4.0        | 5.0         | 6.25    | 65       | 80        | 60-130          | 20.6    | 30        |
| N-Nitrosodimethylamine          | 1.0        | 1.1         | 1.25    | 80       | 91        | 70-130          | 12.1    | 30        |
| N-Nitrosodi-n-propylamine       | 0.86       | 1.0         | 1.25    | 69       | 83        | 60-130          | 18.1    | 30        |
| N-Nitrosodiphenylamine          | 0.88       | 1.1         | 1.25    | 70       | 88        | 70-130          | 22.8    | 30        |
| Pentachlorophenol               | 0.23       | 0.28        | 0.31    | 73       | 89        | 50-130          | 20.1    | 30        |
| Phenanthrene                    | 0.042      | 0.053       | 0.062   | 68       | 84        | 60-130          | 21.4    | 30        |
| Phenol                          | 0.19       | 0.22        | 0.25    | 77       | 90        | 60-130          | 15.0    | 30        |
| Pyrene                          | 0.049      | 0.062       | 0.062   | 78       | 99        | 70-130          | 23.9    | 30        |
| Pyridine                        | 0.69       | 0.79        | 1.25    | 55,F5    | 64        | 60-130          | 14.2    | 30        |
| 2,3,4,6-Tetrachlorophenol       | 1.1        | 1.3         | 1.25    | 89       | 105       | 60-130          | 16.7    | 30        |
| 1,2,4-Trichlorobenzene          | 0.99       | 1.2         | 1.25    | 79       | 98        | 60-130          | 21.1    | 30        |
| 2,4,5-Trichlorophenol           | 0.048      | 0.059       | 0.062   | 76       | 94        | 60-130          | 21.5    | 30        |
| 2,4,6-Trichlorophenol           | 0.043      | 0.055       | 0.062   | 69       | 88        | 60-130          | 24.8    | 30        |

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/22/2025  
**Date Analyzed:** 07/22/2025 - 07/23/2025  
**Instrument:** GC17, GC21  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**BatchID:** 321891  
**Extraction Method:** SW3550B  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS/LCSD-321891  
2507B65-001AMS/MSD

### QC Summary Report for SW8270E

| Analyte                   | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD  | RPD Limit |
|---------------------------|------------|-------------|---------|----------|-----------|-----------------|------|-----------|
| <b>Surrogate Recovery</b> |            |             |         |          |           |                 |      |           |
| 2-Fluorophenol            | 0.98       | 1.1         | 1.25    | 78       | 85        | 70-130          | 7.94 | 30        |
| Phenol-d5                 | 0.96       | 1.0         | 1.25    | 77       | 83        | 70-130          | 8.16 | 30        |
| Nitrobenzene-d5           | 0.98       | 1.1         | 1.25    | 78       | 89        | 60-130          | 12.3 | 30        |
| 2-Fluorobiphenyl          | 0.90       | 1.1         | 1.25    | 72       | 85        | 60-130          | 16.6 | 30        |
| 2,4,6-Tribromophenol      | 0.94       | 1.1         | 1.25    | 75       | 88        | 30-130          | 15.8 | 30        |
| 4-Terphenyl-d14           | 0.94       | 1.1         | 1.25    | 75       | 89        | 40-130          | 16.3 | 30        |

| Analyte                       | MS DF | MS Result | MSD Result | SPK Val | SPKRef Val | MS %REC | MSD %REC | MS/MSD Limits | RPD     | RPD Limit |
|-------------------------------|-------|-----------|------------|---------|------------|---------|----------|---------------|---------|-----------|
| Acenaphthene                  | 5     | 0.054     | 0.063      | 0.062   | ND<0.0065  | 86      | 101      | 60-130        | 15.7    | 30        |
| Acenaphthylene                | 5     | 0.049     | 0.055      | 0.062   | ND<0.0065  | 79      | 88       | 60-130        | 11.7    | 30        |
| Acetochlor                    | 5     | 0.92      | 0.90       | 1.25    | ND<1.2     | 74      | 72       | 60-130        | 2.22    | 30        |
| Anthracene                    | 5     | 0.047     | 0.058      | 0.062   | ND<0.0065  | 76      | 92       | 60-130        | 19.2    | 30        |
| Benzidine                     | 5     | 1.5       | 1.9        | 6.25    | ND<1.2     | NR,F16  | NR,F16   | 20-130        | NR      | 30        |
| Benzo (a) anthracene          | 5     | 0.068     | 0.076      | 0.062   | ND<0.062   | 108     | 122      | 60-130        | 11.6    | 30        |
| Benzo (a) pyrene              | 5     | 0.067     | 0.069      | 0.062   | ND<0.0065  | 107     | 110      | 60-130        | 2.88    | 30        |
| Benzo (b) fluoranthene        | 5     | 0.056     | 0.062      | 0.062   | ND<0.012   | 89      | 99       | 60-130        | 10.4    | 30        |
| Benzo (g,h,i) perylene        | 5     | 0.068     | 0.071      | 0.062   | ND<0.012   | 109     | 114      | 60-130        | 4.30    | 30        |
| Benzo (k) fluoranthene        | 5     | 0.075     | 0.078      | 0.062   | ND<0.012   | 120     | 125      | 60-130        | 4.55    | 30        |
| Benzoic Acid                  | 5     | 4.3       | 4.3        | 6.25    | ND<6.2     | 69      | 68       | 15-130        | 1.17    | 30        |
| Benzyl Alcohol                | 5     | 4.1       | 5.1        | 6.25    | ND<6.2     | 65      | 82       | 60-130        | 22.9    | 30        |
| 1,1-Biphenyl                  | 5     | 0.12      | 0.13       | 0.12    | ND<0.025   | 98      | 104      | 60-130        | 5.65    | 30        |
| Bis (2-chloroethoxy) Methane  | 5     | 1.0       | 1.1        | 1.25    | ND<1.2     | 81      | 87       | 60-130        | 6.72    | 30        |
| Bis (2-chloroethyl) Ether     | 5     | 0.050     | 0.058      | 0.062   | ND<0.0065  | 80      | 93       | 60-130        | 15.8    | 30        |
| Bis (2-chloroisopropyl) Ether | 5     | 0.11      | 0.068      | 0.062   | ND<0.012   | 173,F1  | 109      | 60-130        | 45.9,F1 | 30        |
| Bis (2-ethylhexyl) Adipate    | 5     | 0.92      | 0.98       | 1.25    | ND<1.2     | 74      | 78       | 60-130        | 6.00    | 30        |
| Bis (2-ethylhexyl) Phthalate  | 5     | NR        | NR         | 0.062   | ND<0.31    | NR      | NR       | 60-130        | NR      | 30        |
| 4-Bromophenyl Phenyl Ether    | 5     | 0.96      | 1.2        | 1.25    | ND<1.2     | 77      | 100      | 60-130        | 25.5    | 30        |
| Butylbenzyl Phthalate         | 5     | 0.059     | 0.060      | 0.062   | ND<0.31    | 94      | 96       | 60-130        | 2.85    | 30        |
| 4-Chloro-3-methylphenol       | 5     | 1.1       | 1.2        | 1.25    | ND<1.2     | 85      | 94       | 60-130        | 10.2    | 30        |
| 4-Chloroaniline               | 5     | 0.043     | 0.049      | 0.062   | ND<0.0065  | 68      | 78       | 40-130        | 13.4    | 30        |
| 2-Chloronaphthalene           | 5     | 1.1       | 1.3        | 1.25    | ND<1.2     | 87      | 103      | 60-130        | 17.2    | 30        |
| 2-Chlorophenol                | 5     | 0.060     | 0.064      | 0.062   | ND<0.062   | 96      | 102      | 60-130        | 6.82    | 30        |
| 4-Chlorophenyl Phenyl Ether   | 5     | 1.1       | 1.3        | 1.25    | ND<1.2     | 85      | 100      | 60-130        | 16.2    | 30        |
| Chrysene                      | 5     | 0.060     | 0.078      | 0.062   | ND<0.0065  | 96      | 124      | 60-130        | 25.7    | 30        |

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/22/2025  
**Date Analyzed:** 07/22/2025 - 07/23/2025  
**Instrument:** GC17, GC21  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**BatchID:** 321891  
**Extraction Method:** SW3550B  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS/LCSD-321891  
2507B65-001AMS/MSD

### QC Summary Report for SW8270E

| Analyte                         | MS<br>DF | MS<br>Result | MSD<br>Result | SPK<br>Val | SPKRef<br>Val | MS<br>%REC | MSD<br>%REC | MS/MSD<br>Limits | RPD     | RPD<br>Limit |
|---------------------------------|----------|--------------|---------------|------------|---------------|------------|-------------|------------------|---------|--------------|
| Dibenzo (a,h) anthracene        | 5        | 0.060        | 0.061         | 0.062      | ND<0.012      | 96         | 98          | 60-130           | 2.44    | 30           |
| Dibenzofuran                    | 5        | 0.050        | 0.060         | 0.062      | ND<0.0065     | 80         | 96          | 60-130           | 19.1    | 30           |
| Di-n-butyl Phthalate            | 5        | 0.045        | 0.053         | 0.062      | ND<0.31       | 71         | 85          | 60-130           | 17.6    | 30           |
| 1,2-Dichlorobenzene             | 5        | 1.1          | 1.4           | 1.25       | ND<1.2        | 90         | 113         | 60-130           | 21.9    | 30           |
| 1,3-Dichlorobenzene             | 5        | 1.1          | 1.3           | 1.25       | ND<1.2        | 88         | 103         | 60-130           | 15.8    | 30           |
| 1,4-Dichlorobenzene             | 5        | 1.1          | 1.3           | 1.25       | ND<1.2        | 86         | 101         | 60-130           | 16.6    | 30           |
| 3,3-Dichlorobenzidine           | 5        | 0.053        | 0.050         | 0.062      | ND<0.0065     | 85         | 80          | 40-130           | 6.56    | 30           |
| 2,4-Dichlorophenol              | 5        | 0.056        | 0.058         | 0.062      | ND<0.012      | 90         | 93          | 60-130           | 4.00    | 30           |
| Diethyl Phthalate               | 5        | 0.047        | 0.056         | 0.062      | ND<0.062      | 76         | 89          | 60-130           | 16.6    | 30           |
| 2,4-Dimethylphenol              | 5        | 1.0          | 1.1           | 1.25       | ND<1.2        | 81         | 88          | 60-130           | 7.98    | 30           |
| Dimethyl Phthalate              | 5        | 0.047        | 0.055         | 0.062      | ND<0.012      | 75         | 88          | 60-130           | 16.6    | 30           |
| 4,6-Dinitro-2-methylphenol      | 5        | 6.5          | 7.6           | 6.25       | ND<6.2        | 105        | 121         | 20-130           | 14.8    | 30           |
| 2,4-Dinitrophenol               | 5        | 0.99         | 1.5           | 1.75       | ND<1.2        | 57         | 84          | 15-130           | 38.9,F1 | 30           |
| 2,4-Dinitrotoluene              | 5        | NR           | NR            | 0.062      | ND<0.062      | NR         | NR          | 60-130           | NR      | 30           |
| 2,6-Dichlorophenol              | 5        | 0.052        | 0.056         | 0.062      | ND<0.062      | 83         | 90          | 60-130           | 7.92    | 30           |
| 2,6-Dinitrotoluene              | 5        | NR           | NR            | 0.062      | ND<0.062      | NR         | NR          | 60-130           | NR      | 30           |
| Di-n-octyl Phthalate            | 5        | 1.2          | 1.3           | 1.25       | ND<3.1        | 93         | 108         | 60-130           | 14.9    | 30           |
| 1,2-Diphenylhydrazine           | 5        | 0.90         | 1.2           | 1.25       | ND<1.2        | 72         | 95          | 60-130           | 27.6    | 30           |
| Fluoranthene                    | 5        | 0.051        | 0.063         | 0.062      | ND<0.012      | 82         | 100         | 60-130           | 19.7    | 30           |
| Fluorene                        | 5        | 0.054        | 0.061         | 0.062      | ND<0.012      | 87         | 97          | 60-130           | 11.5    | 30           |
| Hexachlorobenzene               | 5        | 0.049        | 0.060         | 0.062      | ND<0.0065     | 78         | 96          | 60-130           | 20.7    | 30           |
| Hexachlorobutadiene             | 5        | 0.051        | 0.059         | 0.062      | ND<0.0065     | 81         | 94          | 60-130           | 15.3    | 30           |
| Hexachlorocyclopentadiene       | 5        | 3.5          | 4.4           | 6.25       | ND<6.2        | 56,F1      | 70          | 60-130           | 22.4    | 30           |
| Hexachloroethane                | 5        | 0.049        | 0.061         | 0.062      | ND<0.012      | 78         | 98          | 60-130           | 22.6    | 30           |
| Indeno (1,2,3-cd) pyrene        | 5        | 0.066        | 0.062         | 0.062      | ND<0.012      | 106        | 99          | 60-130           | 6.79    | 30           |
| Isophorone                      | 5        | 0.88         | 1.0           | 1.25       | ND<1.2        | 70         | 82          | 60-130           | 15.7    | 30           |
| 1-Methylnaphthalene             | 5        | 0.052        | 0.059         | 0.062      | ND<0.0065     | 83         | 95          | 60-130           | 13.0    | 30           |
| 2-Methylnaphthalene             | 5        | 0.053        | 0.060         | 0.062      | ND<0.0065     | 85         | 96          | 60-130           | 12.4    | 30           |
| 2-Methylphenol (o-Cresol)       | 5        | 1.1          | 1.4           | 1.25       | ND<1.2        | 89         | 109         | 60-130           | 20.0    | 30           |
| 3 & 4-Methylphenol (m,p-Cresol) | 5        | 1.2          | 1.3           | 1.25       | ND<1.2        | 93         | 103         | 60-130           | 10.4    | 30           |
| Naphthalene                     | 5        | 0.053        | 0.062         | 0.062      | ND<0.012      | 85         | 99          | 60-130           | 15.3    | 30           |
| 2-Nitroaniline                  | 5        | 7.5          | 7.0           | 6.25       | ND<6.2        | 120        | 111         | 60-130           | 7.62    | 30           |
| 3-Nitroaniline                  | 5        | 7.6          | 7.1           | 6.25       | ND<6.2        | 121        | 114         | 50-130           | 6.51    | 30           |
| 4-Nitroaniline                  | 5        | 7.5          | 7.0           | 6.25       | ND<6.2        | 120        | 112         | 60-130           | 6.64    | 30           |
| Nitrobenzene                    | 5        | 1.5          | 1.4           | 1.25       | ND<1.2        | 123        | 110         | 60-130           | 10.8    | 30           |
| 2-Nitrophenol                   | 5        | 8.6          | 8.1           | 6.25       | ND<6.2        | 138,F1     | 130         | 60-130           | 5.99    | 30           |
| 4-Nitrophenol                   | 5        | 5.9          | 6.4           | 6.25       | ND<6.2        | 94         | 103         | 60-130           | 9.68    | 30           |
| N-Nitrosodimethylamine          | 5        | 0.89         | 1.1           | 1.25       | ND<1.2        | 71         | 91          | 60-130           | 24.6    | 30           |

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/22/2025  
**Date Analyzed:** 07/22/2025 - 07/23/2025  
**Instrument:** GC17, GC21  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**BatchID:** 321891  
**Extraction Method:** SW3550B  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS/LCSD-321891  
2507B65-001AMS/MSD

### QC Summary Report for SW8270E

| Analyte                   | MS<br>DF | MS<br>Result | MSD<br>Result | SPK<br>Val | SPKRef<br>Val | MS<br>%REC | MSD<br>%REC | MS/MSD<br>Limits | RPD   | RPD<br>Limit |
|---------------------------|----------|--------------|---------------|------------|---------------|------------|-------------|------------------|-------|--------------|
| N-Nitrosodi-n-propylamine | 5        | 0.84         | 1.0           | 1.25       | ND<1.2        | 67         | 81          | 60-130           | 18.6  | 30           |
| N-Nitrosodiphenylamine    | 5        | 0.96         | 1.2           | 1.25       | ND<1.2        | 76         | 97          | 60-130           | 23.8  | 30           |
| Pentachlorophenol         | 5        | 0.32         | 0.32          | 0.31       | ND<0.31       | 103        | 103         | 50-130           | 0.503 | 30           |
| Phenanthrene              | 5        | 0.054        | 0.066         | 0.062      | ND<0.0065     | 87         | 105         | 60-130           | 18.8  | 30           |
| Phenol                    | 5        | 0.21         | 0.23          | 0.25       | ND<0.050      | 83         | 91          | 60-130           | 9.25  | 30           |
| Pyrene                    | 5        | 0.055        | 0.069         | 0.062      | ND<0.0065     | 88         | 111         | 60-130           | 22.7  | 30           |
| Pyridine                  | 5        | 0.62         | 0.85          | 1.25       | ND<1.2        | NR,F16     | 68          | 60-130           | NR    | 30           |
| 2,3,4,6-Tetrachlorophenol | 5        | 1.6          | 1.7           | 1.25       | ND<1.2        | 124        | 137,F1      | 60-130           | 9.60  | 30           |
| 1,2,4-Trichlorobenzene    | 5        | 1.1          | 1.3           | 1.25       | ND<1.2        | 88         | 104         | 60-130           | 16.5  | 30           |
| 2,4,5-Trichlorophenol     | 5        | 0.067        | 0.068         | 0.062      | ND<0.012      | 107        | 109         | 60-130           | 1.68  | 30           |
| 2,4,6-Trichlorophenol     | 5        | 0.064        | 0.068         | 0.062      | ND<0.012      | 103        | 109         | 60-130           | 5.33  | 30           |
| <b>Surrogate Recovery</b> |          |              |               |            |               |            |             |                  |       |              |
| 2-Fluorophenol            | 5        | 1.0          | 1.1           | 1.25       |               | 82         | 89          | 60-130           | 7.78  | 30           |
| Phenol-d5                 | 5        | 1.0          | 0.99          | 1.25       |               | 82         | 79          | 50-130           | 3.35  | 30           |
| Nitrobenzene-d5           | 5        | 1.3          | 1.0           | 1.25       |               | 101        | 82          | 60-130           | 20.2  | 30           |
| 2-Fluorobiphenyl          | 5        | 0.96         | 1.0           | 1.25       |               | 77         | 83          | 60-130           | 8.32  | 30           |
| 2,4,6-Tribromophenol      | 5        | 1.1          | 1.1           | 1.25       |               | 86         | 85          | 50-130           | 1.42  | 30           |
| 4-Terphenyl-d14           | 5        | 0.96         | 1.1           | 1.25       |               | 77         | 85          | 50-130           | 9.30  | 30           |



## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/21/2025  
**Date Analyzed:** 07/22/2025  
**Instrument:** GC17  
**Matrix:** Water  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**BatchID:** 321775  
**Extraction Method:** E625  
**Analytical Method:** SW8270E  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-321775

### QC Summary Report for SW8270E

| Analyte                       | MB Result | MDL    | RL     | SPK Val | MB IS/SS %REC | MB IS/SS Limits |
|-------------------------------|-----------|--------|--------|---------|---------------|-----------------|
| Acenaphthene                  | ND        | 0.0024 | 0.0050 | -       | -             | -               |
| Acenaphthylene                | ND        | 0.0024 | 0.0050 | -       | -             | -               |
| Acetochlor                    | ND        | 0.32   | 1.0    | -       | -             | -               |
| Anthracene                    | ND        | 0.0019 | 0.0050 | -       | -             | -               |
| Benzidine                     | ND        | 2.7    | 5.0    | -       | -             | -               |
| Benzo (a) anthracene          | ND        | 0.021  | 0.050  | -       | -             | -               |
| Benzo (a) pyrene              | ND        | 0.0047 | 0.0050 | -       | -             | -               |
| Benzo (b) fluoranthene        | ND        | 0.0074 | 0.010  | -       | -             | -               |
| Benzo (g,h,i) perylene        | ND        | 0.0054 | 0.010  | -       | -             | -               |
| Benzo (k) fluoranthene        | ND        | 0.0072 | 0.010  | -       | -             | -               |
| Benzoic Acid                  | ND        | 0.88   | 5.0    | -       | -             | -               |
| Benzyl Alcohol                | ND        | 1.4    | 5.0    | -       | -             | -               |
| 1,1-Biphenyl                  | ND        | 0.011  | 0.020  | -       | -             | -               |
| Bis (2-chloroethoxy) Methane  | ND        | 0.21   | 1.0    | -       | -             | -               |
| Bis (2-chloroethyl) Ether     | ND        | 0.0015 | 0.0050 | -       | -             | -               |
| Bis (2-chloroisopropyl) Ether | ND        | 0.0058 | 0.010  | -       | -             | -               |
| Bis (2-ethylhexyl) Adipate    | ND        | 0.28   | 1.0    | -       | -             | -               |
| Bis (2-ethylhexyl) Phthalate  | ND        | 0.075  | 0.25   | -       | -             | -               |
| 4-Bromophenyl Phenyl Ether    | ND        | 0.26   | 1.0    | -       | -             | -               |
| Butylbenzyl Phthalate         | ND        | 0.018  | 0.25   | -       | -             | -               |
| 4-Chloro-3-methylphenol       | ND        | 0.30   | 1.0    | -       | -             | -               |
| 4-Chloroaniline               | ND        | 0.0037 | 0.0050 | -       | -             | -               |
| 2-Chloronaphthalene           | ND        | 0.22   | 1.0    | -       | -             | -               |
| 2-Chlorophenol                | ND        | 0.013  | 0.050  | -       | -             | -               |
| 4-Chlorophenyl Phenyl Ether   | ND        | 0.24   | 1.0    | -       | -             | -               |
| Chrysene                      | ND        | 0.0020 | 0.0050 | -       | -             | -               |
| Dibenzo (a,h) anthracene      | ND        | 0.0066 | 0.010  | -       | -             | -               |
| Dibenzofuran                  | ND        | 0.0012 | 0.0050 | -       | -             | -               |
| Di-n-butyl Phthalate          | ND        | 0.039  | 0.25   | -       | -             | -               |
| 1,2-Dichlorobenzene           | ND        | 0.26   | 1.0    | -       | -             | -               |
| 1,3-Dichlorobenzene           | ND        | 0.28   | 1.0    | -       | -             | -               |
| 1,4-Dichlorobenzene           | ND        | 0.31   | 1.0    | -       | -             | -               |
| 3,3-Dichlorobenzidine         | ND        | 0.0018 | 0.010  | -       | -             | -               |
| 2,4-Dichlorophenol            | ND        | 0.0040 | 0.010  | -       | -             | -               |
| Diethyl Phthalate             | ND        | 0.011  | 0.050  | -       | -             | -               |
| 2,4-Dimethylphenol            | ND        | 0.51   | 1.0    | -       | -             | -               |
| Dimethyl Phthalate            | ND        | 0.0031 | 0.010  | -       | -             | -               |
| 4,6-Dinitro-2-methylphenol    | ND        | 3.0    | 5.0    | -       | -             | -               |

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/21/2025  
**Date Analyzed:** 07/22/2025  
**Instrument:** GC17  
**Matrix:** Water  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**BatchID:** 321775  
**Extraction Method:** E625  
**Analytical Method:** SW8270E  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-321775

### QC Summary Report for SW8270E

| Analyte                         | MB Result | MDL     | RL     | SPK Val | MB IS/SS %REC | MB IS/SS Limits |
|---------------------------------|-----------|---------|--------|---------|---------------|-----------------|
| 2,4-Dinitrophenol               | ND        | 0.32    | 1.0    | -       | -             | -               |
| 2,4-Dinitrotoluene              | ND        | 0.013   | 0.050  | -       | -             | -               |
| 2,6-Dichlorophenol              | ND        | 0.011   | 0.050  | -       | -             | -               |
| 2,6-Dinitrotoluene              | ND        | 0.017   | 0.050  | -       | -             | -               |
| Di-n-octyl Phthalate            | ND        | 0.80    | 2.5    | -       | -             | -               |
| 1,2-Diphenylhydrazine           | ND        | 0.29    | 1.0    | -       | -             | -               |
| Fluoranthene                    | ND        | 0.0072  | 0.010  | -       | -             | -               |
| Fluorene                        | ND        | 0.0023  | 0.010  | -       | -             | -               |
| Hexachlorobenzene               | ND        | 0.00085 | 0.0050 | -       | -             | -               |
| Hexachlorobutadiene             | ND        | 0.00080 | 0.0050 | -       | -             | -               |
| Hexachlorocyclopentadiene       | ND        | 1.6     | 5.0    | -       | -             | -               |
| Hexachloroethane                | ND        | 0.0021  | 0.010  | -       | -             | -               |
| Indeno (1,2,3-cd) pyrene        | ND        | 0.0056  | 0.010  | -       | -             | -               |
| Isophorone                      | ND        | 0.24    | 1.0    | -       | -             | -               |
| 1-Methylnaphthalene             | ND        | 0.0031  | 0.0050 | -       | -             | -               |
| 2-Methylnaphthalene             | ND        | 0.0042  | 0.0050 | -       | -             | -               |
| 2-Methylphenol (o-Cresol)       | ND        | 0.29    | 1.0    | -       | -             | -               |
| 3 & 4-Methylphenol (m,p-Cresol) | ND        | 0.28    | 1.0    | -       | -             | -               |
| Naphthalene                     | ND        | 0.0035  | 0.010  | -       | -             | -               |
| 2-Nitroaniline                  | ND        | 1.1     | 5.0    | -       | -             | -               |
| 3-Nitroaniline                  | ND        | 3.4     | 5.0    | -       | -             | -               |
| 4-Nitroaniline                  | ND        | 1.3     | 5.0    | -       | -             | -               |
| Nitrobenzene                    | ND        | 0.24    | 1.0    | -       | -             | -               |
| 2-Nitrophenol                   | ND        | 1.6     | 5.0    | -       | -             | -               |
| 4-Nitrophenol                   | ND        | 1.7     | 5.0    | -       | -             | -               |
| N-Nitrosodimethylamine          | ND        | 0.21    | 1.0    | -       | -             | -               |
| N-Nitrosodi-n-propylamine       | ND        | 0.29    | 1.0    | -       | -             | -               |
| N-Nitrosodiphenylamine          | ND        | 0.24    | 1.0    | -       | -             | -               |
| Pentachlorophenol               | ND        | 0.065   | 0.25   | -       | -             | -               |
| Phenanthrene                    | ND        | 0.0018  | 0.0050 | -       | -             | -               |
| Phenol                          | ND        | 0.017   | 0.040  | -       | -             | -               |
| Pyrene                          | ND        | 0.0021  | 0.0050 | -       | -             | -               |
| Pyridine                        | ND        | 0.34    | 1.0    | -       | -             | -               |
| 2,3,4,6-Tetrachlorophenol       | ND        | 0.39    | 1.0    | -       | -             | -               |
| 1,2,4-Trichlorobenzene          | ND        | 0.30    | 1.0    | -       | -             | -               |
| 2,4,5-Trichlorophenol           | ND        | 0.0062  | 0.010  | -       | -             | -               |
| 2,4,6-Trichlorophenol           | ND        | 0.0031  | 0.010  | -       | -             | -               |

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/21/2025  
**Date Analyzed:** 07/22/2025  
**Instrument:** GC17  
**Matrix:** Water  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**BatchID:** 321775  
**Extraction Method:** E625  
**Analytical Method:** SW8270E  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-321775

### QC Summary Report for SW8270E

| Analyte                   | MB<br>Result | MDL | RL | SPK<br>Val | MB IS/SS<br>%REC | MB IS/SS<br>Limits |
|---------------------------|--------------|-----|----|------------|------------------|--------------------|
| <b>Surrogate Recovery</b> |              |     |    |            |                  |                    |
| 2-Fluorophenol            | 2.0          |     |    | 5          | 41               | 30-130             |
| Phenol-d5                 | 1.4          |     |    | 5          | 27               | 20-130             |
| Nitrobenzene-d5           | 3.1          |     |    | 5          | 63               | 60-130             |
| 2-Fluorobiphenyl          | 3.1          |     |    | 5          | 61               | 50-130             |
| 2,4,6-Tribromophenol      | 2.5          |     |    | 5          | 50,F3            | 60-140             |
| 4-Terphenyl-d14           | 2.8          |     |    | 5          | 56               | 40-130             |



## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/21/2025  
**Date Analyzed:** 07/22/2025  
**Instrument:** GC17  
**Matrix:** Water  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**BatchID:** 321775  
**Extraction Method:** E625  
**Analytical Method:** SW8270E  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-321775

### QC Summary Report for SW8270E

| Analyte                       | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD    | RPD Limit |
|-------------------------------|------------|-------------|---------|----------|-----------|-----------------|--------|-----------|
| Acenaphthene                  | 0.20       | 0.20        | 0.25    | 80       | 79        | 60-132          | 1.31   | 25        |
| Acenaphthylene                | 0.18       | 0.18        | 0.25    | 72       | 72        | 54-126          | 0.131  | 25        |
| Acetochlor                    | 4.4        | 4.0         | 5       | 89       | 80        | 60-130          | 10.3   | 25        |
| Anthracene                    | 0.19       | 0.19        | 0.25    | 75       | 77        | 60-130          | 2.60   | 25        |
| Benzidine                     | 5.2        | 5.2         | 25      | 21       | 21        | 20-130          | 0.566  | 25        |
| Benzo (a) anthracene          | 0.23       | 0.23        | 0.25    | 93       | 93        | 60-130          | 0.0380 | 25        |
| Benzo (a) pyrene              | 0.25       | 0.25        | 0.25    | 99       | 102       | 60-130          | 2.98   | 25        |
| Benzo (b) fluoranthene        | 0.28       | 0.29        | 0.25    | 113      | 115       | 60-130          | 2.09   | 25        |
| Benzo (g,h,i) perylene        | 0.25       | 0.25        | 0.25    | 98       | 101       | 50-130          | 2.93   | 25        |
| Benzo (k) fluoranthene        | 0.28       | 0.28        | 0.25    | 113      | 113       | 60-130          | 0.101  | 25        |
| Benzoic Acid                  | 10         | 10          | 25      | 40       | 42        | 20-130          | 3.99   | 25        |
| Benzyl Alcohol                | 17         | 17          | 25      | 67       | 66        | 60-130          | 0.686  | 25        |
| 1,1-Biphenyl                  | 0.41       | 0.39        | 0.50    | 82       | 78        | 60-130          | 5.36   | 25        |
| Bis (2-chloroethoxy) Methane  | 3.9        | 3.8         | 5       | 78       | 77        | 60-130          | 1.69   | 25        |
| Bis (2-chloroethyl) Ether     | 0.18       | 0.17        | 0.25    | 72       | 70        | 60-130          | 3.30   | 25        |
| Bis (2-chloroisopropyl) Ether | 0.18       | 0.20        | 0.25    | 73       | 79        | 63-139          | 7.00   | 25        |
| Bis (2-ethylhexyl) Adipate    | 4.2        | 4.3         | 5       | 83       | 86        | 60-130          | 2.77   | 25        |
| Bis (2-ethylhexyl) Phthalate  | 0.20       | 0.21        | 0.25    | 81       | 84        | 60-130          | 4.03   | 25        |
| 4-Bromophenyl Phenyl Ether    | 3.7        | 3.8         | 5       | 74       | 76        | 65-120          | 2.87   | 25        |
| Butylbenzyl Phthalate         | 0.19       | 0.20        | 0.25    | 78       | 81        | 60-140          | 4.25   | 25        |
| 4-Chloro-3-methylphenol       | 4.0        | 3.9         | 5       | 80       | 79        | 65-130          | 2.11   | 25        |
| 4-Chloroaniline               | 0.17       | 0.18        | 0.25    | 69       | 71        | 60-130          | 2.36   | 25        |
| 2-Chloronaphthalene           | 4.0        | 4.0         | 5       | 80       | 81        | 65-120          | 1.36   | 25        |
| 2-Chlorophenol                | 0.15       | 0.15        | 0.25    | 60       | 62        | 60-130          | 2.56   | 25        |
| 4-Chlorophenyl Phenyl Ether   | 4.1        | 4.1         | 5       | 82       | 81        | 65-130          | 1.47   | 25        |
| Chrysene                      | 0.23       | 0.23        | 0.25    | 94       | 94        | 70-130          | 0.0367 | 25        |
| Dibenzo (a,h) anthracene      | 0.25       | 0.25        | 0.25    | 101      | 102       | 50-130          | 1.30   | 25        |
| Dibenzofuran                  | 0.19       | 0.18        | 0.25    | 75       | 73        | 65-130          | 2.28   | 25        |
| Di-n-butyl Phthalate          | 0.22       | 0.22        | 0.25    | 86       | 89        | 60-130          | 2.53   | 25        |
| 1,2-Dichlorobenzene           | 3.6        | 3.5         | 5       | 72       | 69        | 60-130          | 3.34   | 25        |
| 1,3-Dichlorobenzene           | 3.5        | 3.5         | 5       | 71       | 70        | 60-130          | 1.41   | 25        |
| 1,4-Dichlorobenzene           | 3.6        | 3.5         | 5       | 72       | 70        | 60-130          | 3.22   | 25        |
| 3,3-Dichlorobenzidine         | 0.18       | 0.19        | 0.25    | 73       | 76        | 60-160          | 4.54   | 25        |
| 2,4-Dichlorophenol            | 0.17       | 0.17        | 0.25    | 69,F5    | 69,F5     | 70-130          | 1.15   | 25        |
| Diethyl Phthalate             | 0.22       | 0.23        | 0.25    | 90       | 91        | 65-130          | 0.585  | 25        |
| 2,4-Dimethylphenol            | 3.3        | 3.1         | 5       | 65       | 63        | 60-130          | 4.16   | 25        |
| Dimethyl Phthalate            | 0.19       | 0.19        | 0.25    | 75       | 75        | 60-130          | 0.0479 | 25        |
| 4,6-Dinitro-2-methylphenol    | 22         | 23          | 25      | 88       | 91        | 60-130          | 4.11   | 25        |

(Cont.)



## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/21/2025  
**Date Analyzed:** 07/22/2025  
**Instrument:** GC17  
**Matrix:** Water  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**BatchID:** 321775  
**Extraction Method:** E625  
**Analytical Method:** SW8270E  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-321775

### QC Summary Report for SW8270E

| Analyte                         | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD     | RPD Limit |
|---------------------------------|------------|-------------|---------|----------|-----------|-----------------|---------|-----------|
| 2,4-Dinitrophenol               | 4.3        | 4.7         | 5       | 86       | 94        | 50-130          | 9.12    | 25        |
| 2,4-Dinitrotoluene              | 0.26       | 0.27        | 0.25    | 103      | 108       | 70-130          | 4.65    | 25        |
| 2,6-Dichlorophenol              | 0.17       | 0.18        | 0.25    | 70       | 71        | 65-130          | 1.55    | 25        |
| 2,6-Dinitrotoluene              | 0.20       | 0.21        | 0.25    | 81       | 82        | 68-137          | 2.12    | 25        |
| Di-n-octyl Phthalate            | 5.6        | 5.7         | 5       | 112      | 114       | 70-130          | 2.29    | 25        |
| 1,2-Diphenylhydrazine           | 4.1        | 4.1         | 5       | 81       | 83        | 65-130          | 1.51    | 25        |
| Fluoranthene                    | 0.21       | 0.21        | 0.25    | 85       | 85        | 65-130          | 0.759   | 25        |
| Fluorene                        | 0.21       | 0.21        | 0.25    | 85       | 82        | 70-120          | 2.43    | 25        |
| Hexachlorobenzene               | 0.21       | 0.20        | 0.25    | 82       | 80        | 60-130          | 2.40    | 25        |
| Hexachlorobutadiene             | 0.18       | 0.18        | 0.25    | 71       | 71        | 70-130          | 0.0814  | 25        |
| Hexachlorocyclopentadiene       | 16         | 16          | 25      | 65       | 64        | 50-130          | 1.64    | 25        |
| Hexachloroethane                | 0.17       | 0.18        | 0.25    | 70       | 70        | 55-120          | 0.918   | 25        |
| Indeno (1,2,3-cd) pyrene        | 0.25       | 0.26        | 0.25    | 100      | 104       | 50-130          | 4.31    | 25        |
| Isophorone                      | 3.8        | 3.8         | 5       | 76       | 76        | 50-130          | 0.330   | 25        |
| 1-Methylnaphthalene             | 0.19       | 0.19        | 0.25    | 75       | 74        | 65-130          | 1.61    | 25        |
| 2-Methylnaphthalene             | 0.19       | 0.19        | 0.25    | 77       | 76        | 60-130          | 0.796   | 25        |
| 2-Methylphenol (o-Cresol)       | 3.2        | 3.1         | 5       | 63       | 62        | 60-130          | 1.54    | 25        |
| 3 & 4-Methylphenol (m,p-Cresol) | 3.1        | 3.0         | 5       | 61       | 60        | 60-130          | 2.26    | 25        |
| Naphthalene                     | 0.19       | 0.19        | 0.25    | 77       | 76        | 70-130          | 0.366   | 25        |
| 2-Nitroaniline                  | 23         | 23          | 25      | 94       | 94        | 65-130          | 0.0103  | 25        |
| 3-Nitroaniline                  | 25         | 25          | 25      | 100      | 100       | 70-140          | 0.00761 | 25        |
| 4-Nitroaniline                  | 27         | 27          | 25      | 108      | 109       | 70-130          | 1.01    | 25        |
| Nitrobenzene                    | 3.9        | 3.9         | 5       | 78       | 78        | 60-130          | 0.236   | 25        |
| 2-Nitrophenol                   | 20         | 21          | 25      | 81       | 82        | 70-130          | 1.02    | 25        |
| 4-Nitrophenol                   | 9.3        | 9.5         | 25      | 37       | 38        | 30-130          | 1.75    | 25        |
| N-Nitrosodimethylamine          | 2.5        | 2.5         | 5       | 50       | 50        | 30-130          | 0.0519  | 25        |
| N-Nitrosodi-n-propylamine       | 3.7        | 3.6         | 5       | 73       | 71        | 59-130          | 2.65    | 25        |
| N-Nitrosodiphenylamine          | 3.9        | 3.9         | 5       | 78       | 78        | 65-130          | 0.404   | 25        |
| Pentachlorophenol               | 1.1        | 1.1         | 1.25    | 87       | 89        | 60-130          | 2.81    | 25        |
| Phenanthrene                    | 0.20       | 0.20        | 0.25    | 78       | 80        | 65-120          | 2.66    | 25        |
| Phenol                          | 0.34       | 0.33        | 1       | 34       | 33        | 30-120          | 0.959   | 25        |
| Pyrene                          | 0.22       | 0.22        | 0.25    | 87       | 88        | 70-120          | 1.10    | 25        |
| Pyridine                        | 2.0        | 1.9         | 5       | 39       | 38        | 30-130          | 4.40    | 25        |
| 2,3,4,6-Tetrachlorophenol       | 4.9        | 4.8         | 5       | 99       | 97        | 70-130          | 1.75    | 25        |
| 1,2,4-Trichlorobenzene          | 3.8        | 3.7         | 5       | 76       | 74        | 60-130          | 2.06    | 25        |
| 2,4,5-Trichlorophenol           | 0.18       | 0.19        | 0.25    | 72       | 75        | 65-130          | 3.78    | 25        |
| 2,4,6-Trichlorophenol           | 0.17       | 0.18        | 0.25    | 70       | 70        | 60-130          | 0.716   | 25        |

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/21/2025  
**Date Analyzed:** 07/22/2025  
**Instrument:** GC17  
**Matrix:** Water  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**BatchID:** 321775  
**Extraction Method:** E625  
**Analytical Method:** SW8270E  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-321775

### QC Summary Report for SW8270E

| Analyte                   | LCS<br>Result | LCSD<br>Result | SPK<br>Val | LCS<br>%REC | LCSD<br>%REC | LCS/LCSD<br>Limits | RPD   | RPD<br>Limit |
|---------------------------|---------------|----------------|------------|-------------|--------------|--------------------|-------|--------------|
| <b>Surrogate Recovery</b> |               |                |            |             |              |                    |       |              |
| 2-Fluorophenol            | 1.8           | 1.9            | 5          | 37          | 38           | 30-130             | 3.10  | 25           |
| Phenol-d5                 | 1.3           | 1.3            | 5          | 27          | 27           | 20-130             | 0.980 | 25           |
| Nitrobenzene-d5           | 3.1           | 3.2            | 5          | 63          | 65           | 60-130             | 3.37  | 25           |
| 2-Fluorobiphenyl          | 3.2           | 3.1            | 5          | 64          | 63           | 50-130             | 2.23  | 25           |
| 2,4,6-Tribromophenol      | 3.7           | 3.8            | 5          | 73          | 75           | 60-140             | 2.66  | 25           |
| 4-Terphenyl-d14           | 2.8           | 2.8            | 5          | 57          | 57           | 40-130             | 0.519 | 25           |



## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/21/2025  
**Date Analyzed:** 07/21/2025  
**Instrument:** ICP-MS4  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**BatchID:** 321742  
**Extraction Method:** SW3050 B  
**Analytical Method:** SW6020  
**Unit:** mg/kg  
**Sample ID:** MB/LCS/LCSD-321742

### QC Summary Report for Metals

| Analyte                   | MB Result | MDL   | RL   | SPK Val | MB IS/SS %REC | MB IS/SS Limits |
|---------------------------|-----------|-------|------|---------|---------------|-----------------|
| Antimony                  | ND        | 0.075 | 0.50 | -       | -             | -               |
| Arsenic                   | ND        | 0.10  | 0.50 | -       | -             | -               |
| Barium                    | ND        | 0.58  | 5.0  | -       | -             | -               |
| Beryllium                 | ND        | 0.082 | 0.50 | -       | -             | -               |
| Cadmium                   | ND        | 0.073 | 0.50 | -       | -             | -               |
| Chromium                  | ND        | 0.14  | 0.50 | -       | -             | -               |
| Cobalt                    | ND        | 0.052 | 0.50 | -       | -             | -               |
| Copper                    | ND        | 0.15  | 0.50 | -       | -             | -               |
| Lead                      | ND        | 0.11  | 0.50 | -       | -             | -               |
| Molybdenum                | ND        | 0.089 | 0.50 | -       | -             | -               |
| Nickel                    | ND        | 0.25  | 0.50 | -       | -             | -               |
| Selenium                  | ND        | 0.20  | 0.50 | -       | -             | -               |
| Silver                    | ND        | 0.066 | 0.50 | -       | -             | -               |
| Thallium                  | ND        | 0.072 | 0.50 | -       | -             | -               |
| Vanadium                  | ND        | 0.10  | 0.50 | -       | -             | -               |
| Zinc                      | ND        | 1.5   | 5.0  | -       | -             | -               |
| <b>Surrogate Recovery</b> |           |       |      |         |               |                 |
| Terbium                   | 540       |       |      | 500     | 109           | 70-130          |



## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/21/2025  
**Date Analyzed:** 07/21/2025  
**Instrument:** ICP-MS4  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**BatchID:** 321742  
**Extraction Method:** SW3050 B  
**Analytical Method:** SW6020  
**Unit:** mg/kg  
**Sample ID:** MB/LCS/LCSD-321742

### QC Summary Report for Metals

| Analyte                   | LCS<br>Result | LCSD<br>Result | SPK<br>Val | LCS<br>%REC | LCSD<br>%REC | LCS/LCSD<br>Limits | RPD  | RPD<br>Limit |
|---------------------------|---------------|----------------|------------|-------------|--------------|--------------------|------|--------------|
| Antimony                  | 46            | 48             | 50         | 92          | 97           | 75-125             | 5.67 | 20           |
| Arsenic                   | 48            | 49             | 50         | 96          | 98           | 75-125             | 2.69 | 20           |
| Barium                    | 470           | 490            | 500        | 94          | 99           | 75-125             | 5.19 | 20           |
| Beryllium                 | 46            | 48             | 50         | 93          | 96           | 75-125             | 2.78 | 20           |
| Cadmium                   | 47            | 48             | 50         | 94          | 96           | 75-125             | 1.87 | 20           |
| Chromium                  | 48            | 50             | 50         | 96          | 101          | 75-125             | 5.26 | 20           |
| Cobalt                    | 47            | 49             | 50         | 95          | 97           | 75-125             | 3.02 | 20           |
| Copper                    | 48            | 50             | 50         | 95          | 100          | 75-125             | 5.07 | 20           |
| Lead                      | 45            | 48             | 50         | 91          | 95           | 75-125             | 5.11 | 20           |
| Molybdenum                | 46            | 48             | 50         | 91          | 96           | 75-125             | 4.73 | 20           |
| Nickel                    | 47            | 50             | 50         | 95          | 100          | 75-125             | 5.54 | 20           |
| Selenium                  | 48            | 50             | 50         | 96          | 101          | 75-125             | 4.95 | 20           |
| Silver                    | 47            | 49             | 50         | 95          | 97           | 75-125             | 2.55 | 20           |
| Thallium                  | 47            | 49             | 50         | 94          | 99           | 75-125             | 5.19 | 20           |
| Vanadium                  | 47            | 50             | 50         | 94          | 99           | 75-125             | 5.08 | 20           |
| Zinc                      | 480           | 500            | 500        | 96          | 100          | 75-125             | 4.13 | 20           |
| <b>Surrogate Recovery</b> |               |                |            |             |              |                    |      |              |
| Terbium                   | 500           | 520            | 500        | 100         | 103          | 70-130             | 3.08 | 20           |



## Quality Control Report

|                       |                             |                           |                    |
|-----------------------|-----------------------------|---------------------------|--------------------|
| <b>Client:</b>        | Langan                      | <b>WorkOrder:</b>         | 2507B65            |
| <b>Date Prepared:</b> | 07/18/2025                  | <b>BatchID:</b>           | 321723             |
| <b>Date Analyzed:</b> | 07/21/2025                  | <b>Extraction Method:</b> | E200.8             |
| <b>Instrument:</b>    | ICP-MS4                     | <b>Analytical Method:</b> | E200.8             |
| <b>Matrix:</b>        | Water                       | <b>Unit:</b>              | µg/L               |
| <b>Project:</b>       | 770651908; Northtown Campus | <b>Sample ID:</b>         | MB/LCS/LCSD-321723 |

### QC Report for Metals (>1% Sediment Content)

| Analyte                   | MB Result | MDL  | RL   | SPK Val | MB IS/SS %REC | MB IS/SS Limits |
|---------------------------|-----------|------|------|---------|---------------|-----------------|
| Antimony                  | ND        | 0.54 | 2.5  | -       | -             | -               |
| Arsenic                   | ND        | 0.42 | 2.5  | -       | -             | -               |
| Barium                    | ND        | 3.4  | 25   | -       | -             | -               |
| Beryllium                 | ND        | 0.27 | 2.5  | -       | -             | -               |
| Cadmium                   | ND        | 0.24 | 2.5  | -       | -             | -               |
| Chromium                  | ND        | 1.3  | 2.5  | -       | -             | -               |
| Cobalt                    | ND        | 0.21 | 2.5  | -       | -             | -               |
| Copper                    | ND        | 1.1  | 2.5  | -       | -             | -               |
| Lead                      | ND        | 0.66 | 2.5  | -       | -             | -               |
| Mercury                   | ND        | 0.11 | 0.25 | -       | -             | -               |
| Molybdenum                | ND        | 0.48 | 2.5  | -       | -             | -               |
| Nickel                    | ND        | 0.93 | 2.5  | -       | -             | -               |
| Selenium                  | ND        | 1.2  | 2.5  | -       | -             | -               |
| Silver                    | ND        | 0.30 | 2.5  | -       | -             | -               |
| Thallium                  | ND        | 0.22 | 2.5  | -       | -             | -               |
| Vanadium                  | ND        | 0.51 | 2.5  | -       | -             | -               |
| Zinc                      | 16,J      | 9.2  | 25   | -       | -             | -               |
| <b>Surrogate Recovery</b> |           |      |      |         |               |                 |
| Terbium                   | 2600      |      |      | 2500    | 103           | 70-130          |



## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/18/2025  
**Date Analyzed:** 07/21/2025  
**Instrument:** ICP-MS4  
**Matrix:** Water  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**BatchID:** 321723  
**Extraction Method:** E200.8  
**Analytical Method:** E200.8  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-321723

### QC Report for Metals (>1% Sediment Content)

| Analyte                   | LCS<br>Result | LCSD<br>Result | SPK<br>Val | LCS<br>%REC | LCSD<br>%REC | LCS/LCSD<br>Limits | RPD    | RPD<br>Limit |
|---------------------------|---------------|----------------|------------|-------------|--------------|--------------------|--------|--------------|
| Antimony                  | 240           | 250            | 250        | 97          | 99           | 85-115             | 1.32   | 20           |
| Arsenic                   | 250           | 250            | 250        | 101         | 101          | 85-115             | 0.0693 | 20           |
| Barium                    | 2400          | 2500           | 2500       | 98          | 99           | 85-115             | 1.19   | 20           |
| Beryllium                 | 230           | 240            | 250        | 93          | 95           | 85-115             | 2.15   | 20           |
| Cadmium                   | 250           | 260            | 250        | 100         | 102          | 85-115             | 1.98   | 20           |
| Chromium                  | 250           | 260            | 250        | 101         | 102          | 85-115             | 1.25   | 20           |
| Cobalt                    | 240           | 240            | 250        | 95          | 97           | 85-115             | 2.97   | 20           |
| Copper                    | 250           | 260            | 250        | 99          | 102          | 85-115             | 2.77   | 20           |
| Lead                      | 240           | 250            | 250        | 97          | 100          | 85-115             | 3.37   | 20           |
| Mercury                   | 6.1           | 6.5            | 6.25       | 97          | 104          | 85-115             | 6.21   | 20           |
| Molybdenum                | 240           | 250            | 250        | 97          | 100          | 85-115             | 2.75   | 20           |
| Nickel                    | 260           | 260            | 250        | 102         | 103          | 85-115             | 0.316  | 20           |
| Selenium                  | 250           | 260            | 250        | 101         | 103          | 85-115             | 2.63   | 20           |
| Silver                    | 250           | 250            | 250        | 99          | 102          | 85-115             | 2.52   | 20           |
| Thallium                  | 250           | 250            | 250        | 100         | 102          | 85-115             | 1.33   | 20           |
| Vanadium                  | 250           | 260            | 250        | 100         | 102          | 85-115             | 2.28   | 20           |
| Zinc                      | 2500          | 2500           | 2500       | 99          | 102          | 85-115             | 2.37   | 20           |
| <b>Surrogate Recovery</b> |               |                |            |             |              |                    |        |              |
| Terbium                   | 2600          | 2600           | 2500       | 102         | 104          | 70-130             | 2.04   | 20           |



## Quality Control Report

|                       |                             |                           |                    |
|-----------------------|-----------------------------|---------------------------|--------------------|
| <b>Client:</b>        | Langan                      | <b>WorkOrder:</b>         | 2507B65            |
| <b>Date Prepared:</b> | 07/21/2025                  | <b>BatchID:</b>           | 321718             |
| <b>Date Analyzed:</b> | 07/22/2025                  | <b>Extraction Method:</b> | SW7471 B           |
| <b>Instrument:</b>    | AA1                         | <b>Analytical Method:</b> | SW7471 B           |
| <b>Matrix:</b>        | Soil                        | <b>Unit:</b>              | mg/Kg              |
| <b>Project:</b>       | 770651908; Northtown Campus | <b>Sample ID:</b>         | MB/LCS/LCSD-321718 |

### QC Summary Report for Mercury

| Analyte | MB Result | MDL   | RL    |   |   |   |
|---------|-----------|-------|-------|---|---|---|
| Mercury | ND        | 0.011 | 0.017 | - | - | - |

| Analyte | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD  | RPD Limit |
|---------|------------|-------------|---------|----------|-----------|-----------------|------|-----------|
| Mercury | 0.16       | 0.17        | 0.17    | 97       | 99        | 80-120          | 1.67 | 20        |



## Quality Control Report

|                       |                             |                           |                    |
|-----------------------|-----------------------------|---------------------------|--------------------|
| <b>Client:</b>        | Langan                      | <b>WorkOrder:</b>         | 2507B65            |
| <b>Date Prepared:</b> | 07/21/2025                  | <b>BatchID:</b>           | 321813             |
| <b>Date Analyzed:</b> | 07/22/2025                  | <b>Extraction Method:</b> | E245.2             |
| <b>Instrument:</b>    | AA1                         | <b>Analytical Method:</b> | E245.2             |
| <b>Matrix:</b>        | Water                       | <b>Unit:</b>              | µg/L               |
| <b>Project:</b>       | 770651908; Northtown Campus | <b>Sample ID:</b>         | MB/LCS/LCSD-321813 |

### QC Summary Report for Mercury

| Analyte | MB Result | MDL  | RL   |   |   |   |
|---------|-----------|------|------|---|---|---|
| Mercury | ND        | 0.12 | 0.20 | - | - | - |

| Analyte | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD  | RPD Limit |
|---------|------------|-------------|---------|----------|-----------|-----------------|------|-----------|
| Mercury | 1.9        | 2.0         | 2       | 96       | 99        | 85-115          | 3.39 | 20        |



## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/23/2025  
**Date Analyzed:** 07/23/2025  
**Instrument:** WetChem  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**BatchID:** 322025  
**Extraction Method:** ASTM D2216-05  
**Analytical Method:** SW8000  
**Unit:** wet wt%  
**Sample ID:** MB-322025

### QC Summary Report for Percent Moisture

| Analyte    | MB<br>Result | MDL   | RL    |   |   |   |
|------------|--------------|-------|-------|---|---|---|
| % Moisture | ND           | 0.100 | 0.100 | - | - | - |





## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/18/2025  
**Date Analyzed:** 07/21/2025  
**Instrument:** GC11B  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**BatchID:** 321736  
**Extraction Method:** SW3550 B  
**Analytical Method:** SW8015 B  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS/LCSD-321736

### QC Report for SW8015B w/out SG Clean-Up

| Analyte                   | MB Result | MDL | RL  | SPK Val | MB IS/SS %REC | MB IS/SS Limits |
|---------------------------|-----------|-----|-----|---------|---------------|-----------------|
| TPH-Diesel (C10-C23)      | ND        | 1.5 | 2.0 | -       | -             | -               |
| TPH-Motor Oil (C18-C36)   | ND        | 4.7 | 10  | -       | -             | -               |
| <b>Surrogate Recovery</b> |           |     |     |         |               |                 |
| C9                        | 29        |     |     | 25      | 114           | 76-153          |

| Analyte                   | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD  | RPD Limit |
|---------------------------|------------|-------------|---------|----------|-----------|-----------------|------|-----------|
| TPH-Diesel (C10-C23)      | 44         | 44          | 40      | 111      | 109       | 70-130          | 1.94 | 20        |
| <b>Surrogate Recovery</b> |            |             |         |          |           |                 |      |           |
| C9                        | 28         | 27          | 25      | 112      | 108       | 76-153          | 3.32 | 20        |



## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/18/2025  
**Date Analyzed:** 07/20/2025  
**Instrument:** GC11A  
**Matrix:** Water  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**BatchID:** 321741  
**Extraction Method:** SW3510 C  
**Analytical Method:** SW8015 B  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-321741

### QC Report for SW8015B w/out SG Clean-Up

| Analyte                 | MB Result | MDL | RL  | SPK Val | MB IS/SS %REC | MB IS/SS Limits |
|-------------------------|-----------|-----|-----|---------|---------------|-----------------|
| TPH-Diesel (C10-C23)    | ND        | 56  | 100 | -       | -             | -               |
| TPH-Motor Oil (C18-C36) | ND        | 160 | 500 | -       | -             | -               |

#### Surrogate Recovery

|    |     |  |  |     |     |        |
|----|-----|--|--|-----|-----|--------|
| C9 | 710 |  |  | 625 | 113 | 73-144 |
|----|-----|--|--|-----|-----|--------|

| Analyte              | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD  | RPD Limit |
|----------------------|------------|-------------|---------|----------|-----------|-----------------|------|-----------|
| TPH-Diesel (C10-C23) | 990        | 1000        | 1000    | 99       | 102       | 70-130          | 3.67 | 20        |

#### Surrogate Recovery

|    |     |     |     |     |     |        |      |    |
|----|-----|-----|-----|-----|-----|--------|------|----|
| C9 | 710 | 730 | 625 | 114 | 117 | 73-144 | 2.77 | 20 |
|----|-----|-----|-----|-----|-----|--------|------|----|



## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/18/2025  
**Date Analyzed:** 07/22/2025 - 07/23/2025  
**Instrument:** GC7  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**BatchID:** 321737  
**Extraction Method:** SW5030 B  
**Analytical Method:** SW8015 B  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS/LCSD-321737

### QC Summary Report for 8015B

| Analyte                   | MB<br>Result | MDL  | RL  | SPK<br>Val | MB IS/SS<br>%REC | MB IS/SS<br>Limits |
|---------------------------|--------------|------|-----|------------|------------------|--------------------|
| TPH(g) (C6-C12)           | ND           | 0.61 | 1.0 | -          | -                | -                  |
| <b>Surrogate Recovery</b> |              |      |     |            |                  |                    |
| 2-Fluorotoluene           | 0.095        |      |     | 0.1        | 95               | 60-140             |

| Analyte                   | LCS<br>Result | LCSD<br>Result | SPK<br>Val | LCS<br>%REC | LCSD<br>%REC | LCS/LCSD<br>Limits | RPD   | RPD<br>Limit |
|---------------------------|---------------|----------------|------------|-------------|--------------|--------------------|-------|--------------|
| TPH(g) (C6-C12)           | 1.5           | 1.4            | 2          | 73          | 70           | 60-140             | 4.55  | 20           |
| <b>Surrogate Recovery</b> |               |                |            |             |              |                    |       |              |
| 2-Fluorotoluene           | 0.089         | 0.090          | 0.10       | 89          | 90           | 60-140             | 0.902 | 20           |



## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/22/2025  
**Date Analyzed:** 07/22/2025  
**Instrument:** GC12  
**Matrix:** Water  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**BatchID:** 321971  
**Extraction Method:** SW5030 B  
**Analytical Method:** SW8015 B  
**Unit:** µg/L  
**Sample ID:** MB/LCS/LCSD-321971

### QC Summary Report for 8015B

| Analyte                   | MB Result | MDL | RL | SPK Val | MB IS/SS %REC | MB IS/SS Limits |
|---------------------------|-----------|-----|----|---------|---------------|-----------------|
| TPH(g) (C6-C12)           | ND        | 21  | 50 | -       | -             | -               |
| <b>Surrogate Recovery</b> |           |     |    |         |               |                 |
| aaa-TFT                   | 10        |     |    | 10      | 105           | 60-140          |

| Analyte                   | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD  | RPD Limit |
|---------------------------|------------|-------------|---------|----------|-----------|-----------------|------|-----------|
| TPH(g) (C6-C12)           | 160        | 200         | 200     | 82       | 99        | 60-140          | 18.5 | 20        |
| <b>Surrogate Recovery</b> |            |             |         |          |           |                 |      |           |
| aaa-TFT                   | 9.1        | 11          | 10      | 91       | 106       | 60-140          | 15.3 | 20        |



## Certified Analyte List

**Client:** Langan

**WorkOrder:** 2507B65

**Project:** 770651908; Northtown Campus

| Analyte     | Cert 1                           | Cert 2                | Cert 3                           | Cert 4                | Cert 5                | Analytical Method | Matrix |
|-------------|----------------------------------|-----------------------|----------------------------------|-----------------------|-----------------------|-------------------|--------|
| 10:2 FTS    | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| 11CIPF3OUdS | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| 3:3 FTCA    | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| 4:2 FTS     | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| 5:3 FTCA    | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| 6:2 FTS     | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| 7:3 FTCA    | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| 8:2 FTS     | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| 9CIPF3ONS   | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| ADONA       | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| EtFOSA      | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| EtFOSE      | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| HFPO-DA     | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| MeFOSA      | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| MeFOSE      | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| NEtFOSAA    | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| NFDHA       | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| NMeFOSAA    | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| PFBA        | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| PFBS        | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| PFDA        | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| PFDoA       | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| PFDoS       | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| PFDS        | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| PFEESA      | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| PFHpA       | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| PFHpS       | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| PFHxA       | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| PFHxDA      | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| PFHxS       | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| PFMBA       | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| PFMPA       | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| PFNA        | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| PFNS        | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| PFOA        | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| PFODA       | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| PFOS        | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| PFOSA       | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| PFPeA       | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| PFPeS       | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| PFTeDA      | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| PFTrDA      | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| PFUnA       | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| 10:2 FTS    | <input type="radio"/>            | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Water  |
| 11CIPF3OUdS | <input checked="" type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Water  |
| 3:3 FTCA    | <input checked="" type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Water  |
| 4:2 FTS     | <input checked="" type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Water  |
| 5:3 FTCA    | <input checked="" type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Water  |
| 6:2 FTS     | <input checked="" type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Water  |
| 7:3 FTCA    | <input checked="" type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Water  |



## Certified Analyte List

**Client:** Langan

**WorkOrder:** 2507B65

**Project:** 770651908; Northtown Campus

| Analyte               | Cert 1 | Cert 2 | Cert 3 | Cert 4 | Cert 5 | Analytical Method | Matrix |
|-----------------------|--------|--------|--------|--------|--------|-------------------|--------|
| 8:2 FTS               | ●      | ○      | ●      | ○      | ○      | E1633             | Water  |
| 9CIPF3ONS             | ●      | ○      | ●      | ○      | ○      | E1633             | Water  |
| ADONA                 | ●      | ○      | ●      | ○      | ○      | E1633             | Water  |
| EtFOSA                | ●      | ○      | ●      | ○      | ○      | E1633             | Water  |
| EtFOSE                | ●      | ○      | ●      | ○      | ○      | E1633             | Water  |
| HFPO-DA               | ●      | ○      | ●      | ○      | ○      | E1633             | Water  |
| MeFOSA                | ●      | ○      | ●      | ○      | ○      | E1633             | Water  |
| MeFOSE                | ●      | ○      | ●      | ○      | ○      | E1633             | Water  |
| NEtFOSAA              | ●      | ○      | ●      | ○      | ○      | E1633             | Water  |
| NFDHA                 | ●      | ○      | ●      | ○      | ○      | E1633             | Water  |
| NMeFOSAA              | ●      | ○      | ●      | ○      | ○      | E1633             | Water  |
| PFBA                  | ●      | ○      | ●      | ○      | ○      | E1633             | Water  |
| PFBS                  | ●      | ○      | ●      | ○      | ○      | E1633             | Water  |
| PFDA                  | ●      | ○      | ●      | ○      | ○      | E1633             | Water  |
| PFDoA                 | ●      | ○      | ●      | ○      | ○      | E1633             | Water  |
| PFDoS                 | ●      | ○      | ●      | ○      | ○      | E1633             | Water  |
| PFDS                  | ●      | ○      | ●      | ○      | ○      | E1633             | Water  |
| PFEESA                | ●      | ○      | ●      | ○      | ○      | E1633             | Water  |
| PFHpA                 | ●      | ○      | ●      | ○      | ○      | E1633             | Water  |
| PFHpS                 | ●      | ○      | ●      | ○      | ○      | E1633             | Water  |
| PFHxA                 | ●      | ○      | ●      | ○      | ○      | E1633             | Water  |
| PFHxDA                | ●      | ○      | ●      | ○      | ○      | E1633             | Water  |
| PFHxS                 | ●      | ○      | ●      | ○      | ○      | E1633             | Water  |
| PFMBA                 | ●      | ○      | ●      | ○      | ○      | E1633             | Water  |
| PFMPA                 | ●      | ○      | ●      | ○      | ○      | E1633             | Water  |
| PFNA                  | ●      | ○      | ●      | ○      | ○      | E1633             | Water  |
| PFNS                  | ●      | ○      | ●      | ○      | ○      | E1633             | Water  |
| PFOA                  | ●      | ○      | ●      | ○      | ○      | E1633             | Water  |
| PFODA                 | ○      | ○      | ●      | ○      | ○      | E1633             | Water  |
| PFOS                  | ●      | ○      | ●      | ○      | ○      | E1633             | Water  |
| PFOSA                 | ○      | ○      | ●      | ○      | ○      | E1633             | Water  |
| PFPeA                 | ●      | ○      | ●      | ○      | ○      | E1633             | Water  |
| PFPeS                 | ●      | ○      | ●      | ○      | ○      | E1633             | Water  |
| PFTeDA                | ●      | ○      | ●      | ○      | ○      | E1633             | Water  |
| PFTrDA                | ●      | ○      | ●      | ○      | ○      | E1633             | Water  |
| PFUnA                 | ●      | ○      | ●      | ○      | ○      | E1633             | Water  |
| a-BHC                 | ●      | ●      | ○      | ○      | ○      | SW8081 B          | Soil   |
| a-Chlordane           | ○      | ●      | ○      | ○      | ○      | SW8081 B          | Soil   |
| Aldrin                | ●      | ●      | ○      | ○      | ○      | SW8081 B          | Soil   |
| b-BHC                 | ●      | ●      | ○      | ○      | ○      | SW8081 B          | Soil   |
| Chlordane (Technical) | ●      | ●      | ○      | ○      | ○      | SW8081 B          | Soil   |
| d-BHC                 | ○      | ●      | ○      | ○      | ○      | SW8081 B          | Soil   |
| Dieldrin              | ●      | ●      | ○      | ○      | ○      | SW8081 B          | Soil   |
| Endosulfan I          | ●      | ●      | ○      | ○      | ○      | SW8081 B          | Soil   |
| Endosulfan II         | ●      | ●      | ○      | ○      | ○      | SW8081 B          | Soil   |
| Endosulfan sulfate    | ●      | ●      | ○      | ○      | ○      | SW8081 B          | Soil   |
| Endrin aldehyde       | ●      | ●      | ○      | ○      | ○      | SW8081 B          | Soil   |
| Endrin ketone         | ●      | ●      | ○      | ○      | ○      | SW8081 B          | Soil   |
| Endrin                | ●      | ●      | ○      | ○      | ○      | SW8081 B          | Soil   |
| g-BHC                 | ●      | ●      | ○      | ○      | ○      | SW8081 B          | Soil   |



## Certified Analyte List

**Client:** Langan

**WorkOrder:** 2507B65

**Project:** 770651908; Northtown Campus

| Analyte                      | Cert 1                           | Cert 2                           | Cert 3                | Cert 4                | Cert 5                | Analytical Method | Matrix |
|------------------------------|----------------------------------|----------------------------------|-----------------------|-----------------------|-----------------------|-------------------|--------|
| g-Chlordane                  | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8081 B          | Soil   |
| Heptachlor epoxide           | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8081 B          | Soil   |
| Heptachlor                   | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8081 B          | Soil   |
| Hexachlorobenzene            | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8081 B          | Soil   |
| Hexachlorocyclopentadiene    | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8081 B          | Soil   |
| Methoxychlor                 | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8081 B          | Soil   |
| p,p-DDD                      | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8081 B          | Soil   |
| p,p-DDE                      | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8081 B          | Soil   |
| p,p-DDT                      | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8081 B          | Soil   |
| Toxaphene                    | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8081 B          | Soil   |
| 1,1,1,2-Tetrachloroethane    | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Soil   |
| 1,1,1-Trichloroethane        | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Soil   |
| 1,1,2,2-Tetrachloroethane    | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Soil   |
| 1,1,2-Trichloroethane        | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Soil   |
| 1,1-Dichloroethane           | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Soil   |
| 1,1-Dichloroethene           | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Soil   |
| 1,1-Dichloropropene          | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Soil   |
| 1,2,3-Trichlorobenzene       | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Soil   |
| 1,2,3-Trichloropropane       | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Soil   |
| 1,2,4-Trichlorobenzene       | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Soil   |
| 1,2,4-Trimethylbenzene       | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Soil   |
| 1,2-Dibromo-3-chloropropane  | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Soil   |
| 1,2-Dibromoethane (EDB)      | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Soil   |
| 1,2-Dichlorobenzene          | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Soil   |
| 1,2-Dichloroethane (1,2-DCA) | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Soil   |
| 1,2-Dichloropropane          | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Soil   |
| 1,3,5-Trimethylbenzene       | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Soil   |
| 1,3-Dichlorobenzene          | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Soil   |
| 1,3-Dichloropropane          | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Soil   |
| 1,4-Dichlorobenzene          | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Soil   |
| 2,2-Dichloropropane          | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Soil   |
| 2-Butanone (MEK)             | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Soil   |
| 2-Chlorotoluene              | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Soil   |
| 2-Hexanone                   | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Soil   |
| 4-Chlorotoluene              | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Soil   |
| 4-Isopropyl toluene          | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Soil   |
| 4-Methyl-2-pentanone (MIBK)  | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Soil   |
| Acetone                      | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Soil   |
| Benzene                      | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Soil   |
| Bromobenzene                 | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Soil   |
| Bromochloromethane           | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Soil   |
| Bromodichloromethane         | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Soil   |
| Bromoform                    | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Soil   |
| Bromomethane                 | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Soil   |
| Carbon Disulfide             | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Soil   |
| Carbon Tetrachloride         | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Soil   |
| Chlorobenzene                | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Soil   |
| Chloroethane                 | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Soil   |
| Chloroform                   | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Soil   |
| Chloromethane                | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Soil   |



## Certified Analyte List

**Client:** Langan

**WorkOrder:** 2507B65

**Project:** 770651908; Northtown Campus

| Analyte                       | Cert 1 | Cert 2 | Cert 3 | Cert 4 | Cert 5 | Analytical Method | Matrix |
|-------------------------------|--------|--------|--------|--------|--------|-------------------|--------|
| cis-1,2-Dichloroethene        | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| cis-1,3-Dichloropropene       | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| Dibromochloromethane          | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| Dibromomethane                | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| Dichlorodifluoromethane       | ○      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| Diisopropyl ether (DIPE)      | ●      | ○      | ○      | ○      | ○      | SW8260D           | Soil   |
| Ethyl tert-butyl ether (ETBE) | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| Ethylbenzene                  | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| Freon 113                     | ○      | ○      | ○      | ○      | ○      | SW8260D           | Soil   |
| Hexachlorobutadiene           | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| Hexachloroethane              | ○      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| Isopropylbenzene              | ○      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| m,p-Xylene                    | ●      | ○      | ○      | ○      | ○      | SW8260D           | Soil   |
| Methylene chloride            | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| Methyl-t-butyl ether (MTBE)   | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| Naphthalene                   | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| n-Butyl benzene               | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| n-Propyl benzene              | ●      | ○      | ○      | ○      | ○      | SW8260D           | Soil   |
| o-Xylene                      | ○      | ○      | ○      | ○      | ○      | SW8260D           | Soil   |
| sec-Butyl benzene             | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| Styrene                       | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| t-Butyl alcohol (TBA)         | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| tert-Amyl methyl ether (TAME) | ○      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| tert-Butyl benzene            | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| Tetrachloroethene             | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| Toluene                       | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| trans-1,2-Dichloroethene      | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| trans-1,3-Dichloropropene     | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| Trichloroethene               | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| Trichlorofluoromethane        | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| Vinyl Chloride                | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| Xylenes, Total                | ○      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| 1,1,1,2-Tetrachloroethane     | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| 1,1,1-Trichloroethane         | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| 1,1,2,2-Tetrachloroethane     | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| 1,1,2-Trichloroethane         | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| 1,1-Dichloroethane            | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| 1,1-Dichloroethene            | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| 1,1-Dichloropropene           | ○      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| 1,2,3-Trichlorobenzene        | ○      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| 1,2,3-Trichloropropane        | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| 1,2,4-Trichlorobenzene        | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| 1,2,4-Trimethylbenzene        | ○      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| 1,2-Dibromo-3-chloropropane   | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| 1,2-Dibromoethane (EDB)       | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| 1,2-Dichlorobenzene           | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| 1,2-Dichloroethane (1,2-DCA)  | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| 1,2-Dichloropropane           | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| 1,3,5-Trimethylbenzene        | ○      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| 1,3-Dichlorobenzene           | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |





## Certified Analyte List

**Client:** Langan

**WorkOrder:** 2507B65

**Project:** 770651908; Northtown Campus

| Analyte                       | Cert 1                           | Cert 2                           | Cert 3                | Cert 4                | Cert 5                | Analytical Method | Matrix |
|-------------------------------|----------------------------------|----------------------------------|-----------------------|-----------------------|-----------------------|-------------------|--------|
| 1,3-Dichloropropane           | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| 1,4-Dichlorobenzene           | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| 2,2-Dichloropropane           | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| 2-Butanone (MEK)              | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| 2-Chlorotoluene               | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| 2-Hexanone                    | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| 4-Chlorotoluene               | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| 4-Isopropyl toluene           | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| 4-Methyl-2-pentanone (MIBK)   | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| Acetone                       | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| Benzene                       | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| Bromobenzene                  | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| Bromochloromethane            | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| Bromodichloromethane          | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| Bromoform                     | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| Bromomethane                  | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| Carbon Disulfide              | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| Carbon Tetrachloride          | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| Chlorobenzene                 | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| Chloroethane                  | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| Chloroform                    | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| Chloromethane                 | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| cis-1,2-Dichloroethene        | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| cis-1,3-Dichloropropene       | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| Dibromochloromethane          | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| Dibromomethane                | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| Dichlorodifluoromethane       | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| Diisopropyl ether (DIPE)      | <input checked="" type="radio"/> | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| Ethyl tert-butyl ether (ETBE) | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| Ethylbenzene                  | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| Freon 113                     | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| Hexachlorobutadiene           | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| Hexachloroethane              | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| Isopropylbenzene              | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| m,p-Xylene                    | <input checked="" type="radio"/> | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| Methylene chloride            | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| Methyl-t-butyl ether (MTBE)   | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| Naphthalene                   | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| n-Butyl benzene               | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| n-Propyl benzene              | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| o-Xylene                      | <input checked="" type="radio"/> | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| sec-Butyl benzene             | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| Styrene                       | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| t-Butyl alcohol (TBA)         | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| tert-Amyl methyl ether (TAME) | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| tert-Butyl benzene            | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| Tetrachloroethene             | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| Toluene                       | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| trans-1,2-Dichloroethene      | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |
| trans-1,3-Dichloropropene     | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8260D           | Water  |



## Certified Analyte List

**Client:** Langan

**WorkOrder:** 2507B65

**Project:** 770651908; Northtown Campus

| Analyte                         | Cert 1 | Cert 2 | Cert 3 | Cert 4 | Cert 5 | Analytical Method | Matrix |
|---------------------------------|--------|--------|--------|--------|--------|-------------------|--------|
| Trichloroethene                 | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| Trichlorofluoromethane          | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| Vinyl Chloride                  | ●      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| Xylenes, Total                  | ○      | ●      | ○      | ○      | ○      | SW8260D           | Water  |
| 1,1-Biphenyl                    | ○      | ○      | ○      | ○      | ○      | SW8270E           | Soil   |
| 1,2,4-Trichlorobenzene          | ○      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| 1,2-Dichlorobenzene             | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| 1,2-Diphenylhydrazine           | ○      | ○      | ○      | ○      | ○      | SW8270E           | Soil   |
| 1,3-Dichlorobenzene             | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| 1,4-Dichlorobenzene             | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| 1-Methylnaphthalene             | ○      | ○      | ○      | ○      | ○      | SW8270E           | Soil   |
| 2,3,4,6-Tetrachlorophenol       | ○      | ○      | ○      | ○      | ○      | SW8270E           | Soil   |
| 2,4,5-Trichlorophenol           | ○      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| 2,4,6-Trichlorophenol           | ○      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| 2,4-Dichlorophenol              | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| 2,4-Dimethylphenol              | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| 2,4-Dinitrophenol               | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| 2,4-Dinitrotoluene              | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| 2,6-Dichlorophenol              | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| 2,6-Dinitrotoluene              | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| 2-Chloronaphthalene             | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| 2-Chlorophenol                  | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| 2-Methylnaphthalene             | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| 2-Methylphenol (o-Cresol)       | ○      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| 2-Nitroaniline                  | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| 2-Nitrophenol                   | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| 3 & 4-Methylphenol (m,p-Cresol) | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| 3,3-Dichlorobenzidine           | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| 3-Nitroaniline                  | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| 4,6-Dinitro-2-methylphenol      | ○      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| 4-Bromophenyl Phenyl Ether      | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| 4-Chloro-3-methylphenol         | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| 4-Chloroaniline                 | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| 4-Chlorophenyl Phenyl Ether     | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| 4-Nitroaniline                  | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| 4-Nitrophenol                   | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| Acenaphthene                    | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| Acenaphthylene                  | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| Acetochlor                      | ○      | ○      | ○      | ○      | ○      | SW8270E           | Soil   |
| Anthracene                      | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| Benzydine                       | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| Benzo (a) anthracene            | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| Benzo (a) pyrene                | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| Benzo (b) fluoranthene          | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| Benzo (g,h,i) perylene          | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| Benzo (k) fluoranthene          | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| Benzoic Acid                    | ○      | ○      | ○      | ○      | ○      | SW8270E           | Soil   |
| Benzyl Alcohol                  | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| Bis (2-chloroethoxy) Methane    | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| Bis (2-chloroethyl) Ether       | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |



## Certified Analyte List

**Client:** Langan

**WorkOrder:** 2507B65

**Project:** 770651908; Northtown Campus

| Analyte                       | Cert 1                           | Cert 2                           | Cert 3                | Cert 4                | Cert 5                | Analytical Method | Matrix |
|-------------------------------|----------------------------------|----------------------------------|-----------------------|-----------------------|-----------------------|-------------------|--------|
| Bis (2-chloroisopropyl) Ether | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8270E           | Soil   |
| Bis (2-ethylhexyl) Adipate    | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8270E           | Soil   |
| Bis (2-ethylhexyl) Phthalate  | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8270E           | Soil   |
| Butylbenzyl Phthalate         | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8270E           | Soil   |
| Chrysene                      | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8270E           | Soil   |
| Dibenzo (a,h) anthracene      | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8270E           | Soil   |
| Dibenzofuran                  | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8270E           | Soil   |
| Diethyl Phthalate             | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8270E           | Soil   |
| Dimethyl Phthalate            | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8270E           | Soil   |
| Di-n-butyl Phthalate          | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8270E           | Soil   |
| Di-n-octyl Phthalate          | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8270E           | Soil   |
| Fluoranthene                  | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8270E           | Soil   |
| Fluorene                      | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8270E           | Soil   |
| Hexachlorobenzene             | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8270E           | Soil   |
| Hexachlorobutadiene           | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8270E           | Soil   |
| Hexachlorocyclopentadiene     | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8270E           | Soil   |
| Hexachloroethane              | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8270E           | Soil   |
| Indeno (1,2,3-cd) pyrene      | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8270E           | Soil   |
| Isophorone                    | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8270E           | Soil   |
| Naphthalene                   | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8270E           | Soil   |
| Nitrobenzene                  | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8270E           | Soil   |
| N-Nitrosodimethylamine        | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8270E           | Soil   |
| N-Nitrosodi-n-propylamine     | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8270E           | Soil   |
| N-Nitrosodiphenylamine        | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8270E           | Soil   |
| Pentachlorophenol             | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8270E           | Soil   |
| Phenanthrene                  | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8270E           | Soil   |
| Phenol                        | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8270E           | Soil   |
| Pyrene                        | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8270E           | Soil   |
| Pyridine                      | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8270E           | Soil   |
| 1,1-Biphenyl                  | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8270E           | Water  |
| 1,2,4-Trichlorobenzene        | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8270E           | Water  |
| 1,2-Dichlorobenzene           | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8270E           | Water  |
| 1,2-Diphenylhydrazine         | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8270E           | Water  |
| 1,3-Dichlorobenzene           | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8270E           | Water  |
| 1,4-Dichlorobenzene           | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8270E           | Water  |
| 1-Methylnaphthalene           | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8270E           | Water  |
| 2,3,4,6-Tetrachlorophenol     | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8270E           | Water  |
| 2,4,5-Trichlorophenol         | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8270E           | Water  |
| 2,4,6-Trichlorophenol         | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8270E           | Water  |
| 2,4-Dichlorophenol            | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8270E           | Water  |
| 2,4-Dimethylphenol            | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8270E           | Water  |
| 2,4-Dinitrophenol             | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8270E           | Water  |
| 2,4-Dinitrotoluene            | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8270E           | Water  |
| 2,6-Dichlorophenol            | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8270E           | Water  |
| 2,6-Dinitrotoluene            | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8270E           | Water  |
| 2-Chloronaphthalene           | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8270E           | Water  |
| 2-Chlorophenol                | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8270E           | Water  |
| 2-Methylnaphthalene           | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8270E           | Water  |
| 2-Methylphenol (o-Cresol)     | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8270E           | Water  |
| 2-Nitroaniline                | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8270E           | Water  |



## Certified Analyte List

**Client:** Langan

**WorkOrder:** 2507B65

**Project:** 770651908; Northtown Campus

| Analyte                         | Cert 1 | Cert 2 | Cert 3 | Cert 4 | Cert 5 | Analytical Method | Matrix |
|---------------------------------|--------|--------|--------|--------|--------|-------------------|--------|
| 2-Nitrophenol                   | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| 3 & 4-Methylphenol (m,p-Cresol) | ○      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| 3,3-Dichlorobenzidine           | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| 3-Nitroaniline                  | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| 4,6-Dinitro-2-methylphenol      | ○      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| 4-Bromophenyl Phenyl Ether      | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| 4-Chloro-3-methylphenol         | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| 4-Chloroaniline                 | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| 4-Chlorophenyl Phenyl Ether     | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| 4-Nitroaniline                  | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| 4-Nitrophenol                   | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Acenaphthene                    | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Acenaphthylene                  | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Acetochlor                      | ○      | ○      | ○      | ○      | ○      | SW8270E           | Water  |
| Anthracene                      | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Benzidine                       | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Benzo (a) anthracene            | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Benzo (a) pyrene                | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Benzo (b) fluoranthene          | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Benzo (g,h,i) perylene          | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Benzo (k) fluoranthene          | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Benzoic Acid                    | ○      | ○      | ○      | ○      | ○      | SW8270E           | Water  |
| Benzyl Alcohol                  | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Bis (2-chloroethoxy) Methane    | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Bis (2-chloroethyl) Ether       | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Bis (2-chloroisopropyl) Ether   | ○      | ○      | ○      | ○      | ○      | SW8270E           | Water  |
| Bis (2-ethylhexyl) Adipate      | ○      | ○      | ○      | ○      | ○      | SW8270E           | Water  |
| Bis (2-ethylhexyl) Phthalate    | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Butylbenzyl Phthalate           | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Chrysene                        | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Dibenzo (a,h) anthracene        | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Dibenzofuran                    | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Diethyl Phthalate               | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Dimethyl Phthalate              | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Di-n-butyl Phthalate            | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Di-n-octyl Phthalate            | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Fluoranthene                    | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Fluorene                        | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Hexachlorobenzene               | ○      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Hexachlorobutadiene             | ○      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Hexachlorocyclopentadiene       | ○      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Hexachloroethane                | ○      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Indeno (1,2,3-cd) pyrene        | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Isophorone                      | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Naphthalene                     | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Nitrobenzene                    | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| N-Nitrosodimethylamine          | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| N-Nitrosodi-n-propylamine       | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| N-Nitrosodiphenylamine          | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Pentachlorophenol               | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |



## Certified Analyte List

**Client:** Langan

**WorkOrder:** 2507B65

**Project:** 770651908; Northtown Campus

| Analyte                 | Cert 1 | Cert 2 | Cert 3 | Cert 4 | Cert 5 | Analytical Method | Matrix |
|-------------------------|--------|--------|--------|--------|--------|-------------------|--------|
| Phenanthrene            | ●      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Phenol                  | ○      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Pyrene                  | ○      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Pyridine                | ○      | ●      | ○      | ○      | ○      | SW8270E           | Water  |
| Antimony                | ●      | ●      | ○      | ○      | ○      | SW6020            | Soil   |
| Arsenic                 | ●      | ●      | ○      | ○      | ○      | SW6020            | Soil   |
| Barium                  | ●      | ●      | ○      | ○      | ○      | SW6020            | Soil   |
| Beryllium               | ●      | ●      | ○      | ○      | ○      | SW6020            | Soil   |
| Cadmium                 | ●      | ●      | ○      | ○      | ○      | SW6020            | Soil   |
| Chromium                | ●      | ●      | ○      | ○      | ○      | SW6020            | Soil   |
| Cobalt                  | ●      | ●      | ○      | ○      | ○      | SW6020            | Soil   |
| Copper                  | ●      | ●      | ○      | ○      | ○      | SW6020            | Soil   |
| Lead                    | ●      | ●      | ○      | ○      | ○      | SW6020            | Soil   |
| Molybdenum              | ●      | ●      | ○      | ○      | ○      | SW6020            | Soil   |
| Nickel                  | ●      | ●      | ○      | ○      | ○      | SW6020            | Soil   |
| Selenium                | ●      | ●      | ○      | ○      | ○      | SW6020            | Soil   |
| Silver                  | ●      | ●      | ○      | ○      | ○      | SW6020            | Soil   |
| Thallium                | ●      | ●      | ○      | ○      | ○      | SW6020            | Soil   |
| Vanadium                | ●      | ●      | ○      | ○      | ○      | SW6020            | Soil   |
| Zinc                    | ●      | ●      | ○      | ○      | ○      | SW6020            | Soil   |
| Antimony                | ●      | ●      | ○      | ○      | ○      | E200.8            | Water  |
| Arsenic                 | ●      | ●      | ○      | ○      | ○      | E200.8            | Water  |
| Barium                  | ●      | ●      | ○      | ○      | ○      | E200.8            | Water  |
| Beryllium               | ●      | ●      | ○      | ○      | ○      | E200.8            | Water  |
| Cadmium                 | ●      | ●      | ○      | ○      | ○      | E200.8            | Water  |
| Chromium                | ●      | ●      | ○      | ○      | ○      | E200.8            | Water  |
| Cobalt                  | ●      | ●      | ○      | ○      | ○      | E200.8            | Water  |
| Copper                  | ●      | ●      | ○      | ○      | ○      | E200.8            | Water  |
| Lead                    | ●      | ●      | ○      | ○      | ○      | E200.8            | Water  |
| Mercury                 | ○      | ●      | ○      | ○      | ○      | E200.8            | Water  |
| Molybdenum              | ●      | ●      | ○      | ○      | ○      | E200.8            | Water  |
| Nickel                  | ●      | ●      | ○      | ○      | ○      | E200.8            | Water  |
| Selenium                | ●      | ●      | ○      | ○      | ○      | E200.8            | Water  |
| Silver                  | ●      | ●      | ○      | ○      | ○      | E200.8            | Water  |
| Thallium                | ●      | ●      | ○      | ○      | ○      | E200.8            | Water  |
| Vanadium                | ●      | ●      | ○      | ○      | ○      | E200.8            | Water  |
| Zinc                    | ●      | ●      | ○      | ○      | ○      | E200.8            | Water  |
| Mercury                 | ●      | ●      | ○      | ○      | ○      | SW7471 B          | Soil   |
| Mercury                 | ●      | ○      | ○      | ○      | ○      | E245.2            | Water  |
| TPH-Diesel (C10-C23)    | ●      | ●      | ○      | ○      | ○      | SW8015 B          | Soil   |
| TPH-Motor Oil (C18-C36) | ●      | ●      | ○      | ○      | ○      | SW8015 B          | Soil   |
| TPH-Diesel (C10-C23)    | ●      | ●      | ○      | ○      | ○      | SW8015 B          | Water  |
| TPH-Motor Oil (C18-C36) | ●      | ●      | ○      | ○      | ○      | SW8015 B          | Water  |
| TPH(g) (C6-C12)         | ●      | ●      | ○      | ○      | ○      | SW8015 B          | Soil   |
| TPH(g) (C6-C12)         | ●      | ●      | ○      | ○      | ○      | SW8015 B          | Water  |



## Certified Analyte List

**Client:** Langan

**WorkOrder:** 2507B65

**Project:** 770651908; Northtown Campus

| Analyte               | Cert 1                  | Cert 2 | Cert 3 | Cert 4 | Cert 5 | Analytical Method | Matrix |
|-----------------------|-------------------------|--------|--------|--------|--------|-------------------|--------|
| <b>Certifications</b> |                         |        |        |        |        |                   |        |
| Cert 1                | CA ELAP 1644            |        |        |        |        |                   |        |
| Cert 2                | ORELAP (NELAP) 4033     |        |        |        |        |                   |        |
| Cert 3                | DoD-ELAP Cert # L22-757 |        |        |        |        |                   |        |

The Certified Analyte Report lists the compounds for which MAI is accredited at the time of issuance. Although MAI holds multiple accreditations, methods with extensive compound lists may not be fully accredited due to state agency availability.



1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

# CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 2507B65

ClientCode: TRSJ

☐ WaterTrax☐ CLIP☐ EDF☒ EQuIS☐ Dry-Weight☒ Email☐ HardCopy☐ ThirdParty☐ J-flag☐ Detection Summary☐ Excel**Report to:**

Nelson Pi  
Langan  
1 Almaden Blvd, Suite 590  
San Jose, CA 95113  
407-494-8451 FAX:

Email: npi@langan.com  
cc/3rd Party: drodriguez@Langan.com; wwei@langan.co  
PO:  
Project: 770651908; Northtown Campus

**Bill to:**

Accounts Payable  
Langan  
135 Main St, Suite 1500  
San Francisco, CA 94105  
Langan\_InvoiceCapture@concursolution

**Requested TAT: 5 days;***Date Received:* **07/17/2025***Date Logged:* **07/18/2025**

| Lab ID      | ClientSampleID | Matrix | Collection Date | Hold                     | Requested Tests (See legend below) |   |   |   |   |   |   |   |   |    |    |    |
|-------------|----------------|--------|-----------------|--------------------------|------------------------------------|---|---|---|---|---|---|---|---|----|----|----|
|             |                |        |                 |                          | 1                                  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 2507B65-001 | IDW-1          | Soil   | 7/16/2025 14:15 | <input type="checkbox"/> | B                                  |   | A | A |   | A |   | A |   | A  |    | B  |
| 2507B65-002 | IDW-2          | Water  | 7/16/2025 14:23 | <input type="checkbox"/> |                                    | A |   |   | B |   | E |   | D |    | D  |    |

**Test Legend:**

|   |                  |    |             |    |             |    |                |
|---|------------------|----|-------------|----|-------------|----|----------------|
| 1 | 1633_S           | 2  | 1633_W      | 3  | 8081_S      | 4  | 8260_S         |
| 5 | 8260_W           | 6  | 8270_SCSM_S | 7  | 8270_SCSM_W | 8  | CAM17MS_TTLC_S |
| 9 | CAM17MS_TTLC_Sed | 10 | HG_S        | 11 | HG_W        | 12 | PERmoist_S     |

**Prepared by: Valerie Alfaro**

The following SampleID: 001B contains testgroup 1633\_S.; The following SampleID: 001A contains testgroup CAM17MS\_TTLC\_S(-HG+7471B).; The following SampleID: 001A contains testgroup Multi Range\_S.; The following SampleID: 002C contains testgroup Multi Range\_W.

**Comments:**

NOTE: Soil samples are discarded 60 days after receipt unless other arrangements are made (Water samples are 30 days).  
Hazardous samples will be returned to client or disposed of at client expense.



1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

☐ WaterTrax☐ CLIP☐ EDF

# CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 2507B65

ClientCode: TRSJ

☒ EQuIS☐ Dry-Weight☒ Email☐ HardCopy☐ ThirdParty☐ J-flag☐ Detection Summary☐ Excel**Report to:**

Nelson Pi  
Langan  
1 Almaden Blvd, Suite 590  
San Jose, CA 95113  
407-494-8451 FAX:

Email: npi@langan.com  
cc/3rd Party: drodriguez@Langan.com; wwei@langan.co  
PO:  
Project: 770651908; Northtown Campus

**Bill to:**

Accounts Payable  
Langan  
135 Main St, Suite 1500  
San Francisco, CA 94105  
Langan\_InvoiceCapture@concursolution

**Requested TAT: 5 days;***Date Received:* **07/17/2025***Date Logged:* **07/18/2025**

| Lab ID      | ClientSampleID | Matrix | Collection Date | Hold                     | Requested Tests (See legend below) |    |    |    |    |    |    |    |    |    |    |    |
|-------------|----------------|--------|-----------------|--------------------------|------------------------------------|----|----|----|----|----|----|----|----|----|----|----|
|             |                |        |                 |                          | 13                                 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 2507B65-001 | IDW-1          | Soil   | 7/16/2025 14:15 | <input type="checkbox"/> | A                                  | A  |    | A  |    |    |    |    |    |    |    |    |
| 2507B65-002 | IDW-2          | Water  | 7/16/2025 14:23 | <input type="checkbox"/> | A                                  |    | C  |    | C  |    |    |    |    |    |    |    |

**Test Legend:**

|    |                |
|----|----------------|
| 13 | PRDisposal Fee |
| 17 | TPH-Gas_W      |
| 21 |                |

|    |            |
|----|------------|
| 14 | TPH(DMO)_S |
| 18 |            |
| 22 |            |

|    |            |
|----|------------|
| 15 | TPH(DMO)_W |
| 19 |            |
| 23 |            |

|    |           |
|----|-----------|
| 16 | TPH-Gas_S |
| 20 |           |
| 24 |           |

**Prepared by: Valerie Alfaro**

The following SampleID: 001B contains testgroup 1633\_S.; The following SampleID: 001A contains testgroup CAM17MS\_TTLC\_S(-HG+7471B).; The following SampleID: 001A contains testgroup Multi Range\_S.; The following SampleID: 002C contains testgroup Multi Range\_W.

**Comments:**

NOTE: Soil samples are discarded 60 days after receipt unless other arrangements are made (Water samples are 30 days).  
Hazardous samples will be returned to client or disposed of at client expense.





McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701  
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269  
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

## WORK ORDER SUMMARY

**Client Name:** LANGAN  
**Client Contact:** Nelson Pi  
**Contact's Email:** npil@languan.com

**Project:** 770651908; Northtown Campus

**Work Order:** 2507B65

**QC Level:** LEVEL 2

**Date Logged:** 7/18/2025

**Comments**

☐ WaterTrax ☐ CLIP ☐ EDF ☐ Excel ☒ EQuIS ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

| LabID | ClientSampID | Matrix | Test Name                                  | Cont./Comp. | Bottle & Preservative                | U**                      | Head Space               | Dry-Weight               | Collection Date & Time | TAT    | Test Due Date | Sediment Content | Hold                     | Sub Out                  |
|-------|--------------|--------|--------------------------------------------|-------------|--------------------------------------|--------------------------|--------------------------|--------------------------|------------------------|--------|---------------|------------------|--------------------------|--------------------------|
| 001A  | IDW-1        | Soil   | Multi-Range TPH Gas, Diesel, and Motor Oil | 1           | 16OZ GJ, Unpres                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/16/2025 14:15        | 5 days | 7/24/2025     |                  | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | SW6020/SW7471B (CAM 17 + Hg) †             |             |                                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                        | 5 days | 7/24/2025     |                  | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | SW8270E (SVOCs)                            |             |                                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                        | 5 days | 7/24/2025     |                  | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | SW8260D (VOCs)                             |             |                                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                        | 5 days | 7/24/2025     |                  | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | SW8081 B (OC Pesticides)                   |             |                                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                        | 5 days | 7/24/2025     |                  | <input type="checkbox"/> | <input type="checkbox"/> |
| 001B  | IDW-1        | Soil   | SW8000 (Percent Moisture)                  | 1           | 125mL HDPE, unprsv.                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/16/2025 14:15        | 5 days | 7/24/2025     |                  | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | E1633 Perfluorinated Compounds             |             |                                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                        | 5 days | 7/24/2025     |                  | <input type="checkbox"/> | <input type="checkbox"/> |
| 002A  | IDW-2        | Water  | E1633 Perfluorinated Compounds             | 5           | 125mL HDPE, unprsv.                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/16/2025 14:23        | 5 days | 7/24/2025     | 1%+              | <input type="checkbox"/> | <input type="checkbox"/> |
| 002B  | IDW-2        | Water  | SW8260D (VOCs)                             | 2           | VOA w/ HCl                           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/16/2025 14:23        | 5 days | 7/24/2025     | 1%+              | <input type="checkbox"/> | <input type="checkbox"/> |
| 002C  | IDW-2        | Water  | Multi-Range TPH Gas, Diesel, and Motor Oil | 4           | 2 VOAs w/HCL + 2-aVOAs (multi-range) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/16/2025 14:23        | 5 days | 7/24/2025     | 1%+              | <input type="checkbox"/> | <input type="checkbox"/> |

**NOTES:** \* STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- ISM prep requires 5 to 10 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 6 to 11 days from sample submission). Due date listed on WO summary will not accurately reflect the time needed for sample preparation.

- Organic extracts are held for 40 days before disposal; Inorganic extract are held for 30 days.

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

U\*\* = An unpreserved container was received for a method that suggests a preservation in order to extend hold time for analysis.

### TestGroup Definition:

† CAM 17 Metals (TTLC) without HG by 6020, HG by 7471



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Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269  
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

## WORK ORDER SUMMARY

**Client Name:** LANGAN  
**Client Contact:** Nelson Pi  
**Contact's Email:** npj@langan.com

**Project:** 770651908; Northtown Campus

**Work Order:** 2507B65

**QC Level:** LEVEL 2

**Date Logged:** 7/18/2025

**Comments**

☐ WaterTrax ☐ CLIP ☐ EDF ☐ Excel ☒ EQulS ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

| LabID | ClientSampID | Matrix | Test Name        | Cont./<br>Comp. | Bottle &<br>Preservative    | U**                      | Head<br>Space            | Dry-<br>Weight           | Collection Date<br>& Time | TAT    | Test Due Date | Sediment<br>Content | Hold                     | Sub<br>Out               |
|-------|--------------|--------|------------------|-----------------|-----------------------------|--------------------------|--------------------------|--------------------------|---------------------------|--------|---------------|---------------------|--------------------------|--------------------------|
| 002D  | IDW-2        | Water  | E245.2 (Mercury) | 1               | 250mL HDPE w/<br>HNO3       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/16/2025 14:23           | 5 days | 7/24/2025     | 1%+                 | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | E200.8 (CAM 17)  |                 |                             | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 5 days | 7/24/2025     | 1%+                 | <input type="checkbox"/> | <input type="checkbox"/> |
| 002E  | IDW-2        | Water  | SW8270E (SVOCs)  | 2               | 1LA Narrow Mouth,<br>Unpres | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/16/2025 14:23           | 5 days | 7/24/2025     | 1%+                 | <input type="checkbox"/> | <input type="checkbox"/> |

**NOTES:** \* STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- ISM prep requires 5 to 10 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 6 to 11 days from sample submission). Due date listed on WO summary will not accurately reflect the time needed for sample preparation.

- Organic extracts are held for 40 days before disposal; Inorganic extract are held for 30 days.

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

U\*\* = An unpreserved container was received for a method that suggests a preservation in order to extend hold time for analysis.

### TestGroup Definition:

† CAM 17 Metals (TTLC) without HG by 6020, HG by 7471

# LANGAN

## CHAIN OF CUSTODY RECORD

Page 1 of 1

|                                     |                                                                                         |
|-------------------------------------|-----------------------------------------------------------------------------------------|
| <input type="checkbox"/>            | 135 Main Street, Suite 1500, San Francisco, CA 94105 Ph: 415.955.5200/Fax: 415.955.5201 |
| <input checked="" type="checkbox"/> | 1 S Almaden Blvd, Suite 590, San Jose, 95113 Ph: 408.283.3600/Fax: 408.283.3601         |
| <input type="checkbox"/>            | 3320 Data Drive, Suite 350 Rancho Cordova, CA 95670 Ph: 916.476.6790/Fax: 916.476.6792  |

Site Name: Northtown Campus

Job Number: 770651908

**Project Manager\Contact:** Nelson Pi

**Samplers:** Nelson Pi, Wilma Wei, Dulce Rodriguez Rivera

**Recorder (Signature Required):**

Dulce Rodriguez Rivera

No. Containers

| Matrix | & Preservative |
|--------|----------------|
|--------|----------------|

### Analysis Requested

Turnaround  
Time  
Std 5-Day

| Field Sample Identification No. | Date    | Time | Lab Sample No. | Soil | Water | Other | HCL                                                                                                                                            | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> | Ice     | Other | PFAS (1633) | VOCs (8260) | SVOCs (8272) | TPH (8015) | CAM 17 Met | PAHs (827) | OCPs (806) | Silica gel c | Hold | Remarks                                                                        |
|---------------------------------|---------|------|----------------|------|-------|-------|------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------------|---------|-------|-------------|-------------|--------------|------------|------------|------------|------------|--------------|------|--------------------------------------------------------------------------------|
| IDW-1                           | 7/16/25 | 1415 |                | X    |       |       |                                                                                                                                                |                                |                  |         |       | X           | X           | X            | X          | X          | X          | X          |              |      | * Please filter samples                                                        |
| IDW-2                           | 7/16/25 | 1423 |                |      | X     |       |                                                                                                                                                |                                |                  |         |       | X           | X           | X            | X          | X          | *          |            |              |      | * Solay BUSH for P.FAS per email. WA. 7/18/25                                  |
|                                 |         |      |                |      |       |       |                                                                                                                                                |                                |                  |         |       |             |             |              |            |            |            |            |              |      | * cannot filter do to being in HNO <sub>3</sub> container & sample pH < 2. WA. |
|                                 |         |      |                |      |       |       |                                                                                                                                                |                                |                  |         |       |             |             |              |            |            |            |            |              |      |                                                                                |
|                                 |         |      |                |      |       |       |                                                                                                                                                |                                |                  |         |       |             |             |              |            |            |            |            |              |      |                                                                                |
|                                 |         |      |                |      |       |       |                                                                                                                                                |                                |                  |         |       |             |             |              |            |            |            |            |              |      |                                                                                |
|                                 |         |      |                |      |       |       |                                                                                                                                                |                                |                  |         |       |             |             |              |            |            |            |            |              |      |                                                                                |
|                                 |         |      |                |      |       |       |                                                                                                                                                |                                |                  |         |       |             |             |              |            |            |            |            |              |      |                                                                                |
|                                 |         |      |                |      |       |       |                                                                                                                                                |                                |                  |         |       |             |             |              |            |            |            |            |              |      |                                                                                |
|                                 |         |      |                |      |       |       |                                                                                                                                                |                                |                  |         |       |             |             |              |            |            |            |            |              |      |                                                                                |
|                                 |         |      |                |      |       |       |                                                                                                                                                |                                |                  |         |       |             |             |              |            |            |            |            |              |      |                                                                                |
|                                 |         |      |                |      |       |       |                                                                                                                                                |                                |                  |         |       |             |             |              |            |            |            |            |              |      |                                                                                |
|                                 |         |      |                |      |       |       |                                                                                                                                                |                                |                  |         |       |             |             |              |            |            |            |            |              |      |                                                                                |
|                                 |         |      |                |      |       |       |                                                                                                                                                |                                |                  |         |       |             |             |              |            |            |            |            |              |      |                                                                                |
|                                 |         |      |                |      |       |       |                                                                                                                                                |                                |                  |         |       |             |             |              |            |            |            |            |              |      |                                                                                |
| Relinquished by: (Signature)    |         |      | Date           |      | Time  |       | Received by: (Signature)                                                                                                                       |                                |                  | Date    |       | Time        |             |              |            |            |            |            |              |      |                                                                                |
|                                 |         |      | 7/17/25        |      | 1056  |       |                                                                                                                                                |                                |                  | 7/17/25 |       | 1100        |             |              |            |            |            |            |              |      |                                                                                |
| Relinquished by: (Signature)    |         |      | Date           |      | Time  |       | Received by: (Signature)                                                                                                                       |                                |                  | Date    |       | Time        |             |              |            |            |            |            |              |      |                                                                                |
|                                 |         |      | 7/17/25        |      | 1440  |       |                                                                                                                                                |                                |                  | 7/17/25 |       | 1440        |             |              |            |            |            |            |              |      |                                                                                |
| Relinquished by: (Signature)    |         |      | Date           |      | Time  |       | Received by Lab: (Signature)                                                                                                                   |                                |                  | Date    |       | Time        |             |              |            |            |            |            |              |      |                                                                                |
|                                 |         |      |                |      |       |       |                                                                                                                                                |                                |                  |         |       |             |             |              |            |            |            |            |              |      |                                                                                |
| Sent to Laboratory (Name):      |         |      |                |      |       |       | Method of Shipment                                                                                                                             |                                |                  |         |       |             |             |              |            |            |            |            |              |      |                                                                                |
| Enthalpy - McCampbell           |         |      |                |      |       |       | <input checked="" type="checkbox"/> Lab courier <input type="checkbox"/> Fed Ex <input type="checkbox"/> Airborne <input type="checkbox"/> UPS |                                |                  |         |       |             |             |              |            |            |            |            |              |      |                                                                                |
| Laboratory Comments/Notes:      |         |      |                |      |       |       | <input type="checkbox"/> Hand Carried <input type="checkbox"/> Private Courier (Co. Name)                                                      |                                |                  |         |       |             |             |              |            |            |            |            |              |      |                                                                                |
| email report to npil@langan.com |         |      |                |      |       |       |                                                                                                                                                |                                |                  |         |       |             |             |              |            |            |            |            |              |      |                                                                                |

White Copy - Original

Yellow Copy - Laboratory

Pink Copy - Field

COC Number:

0.4% wet  
1/24



## Sample Receipt Checklist

Client Name: Langan  
Project: 770651908; Northtown Campus

Date and Time Received: 7/17/2025 14:40

Date Logged: 7/18/2025

Received by: Valerie Alfaro

Logged by: Valerie Alfaro

WorkOrder №: 2507B65 Matrix: Soil/Water  
Carrier: Laurie Moore (MAI Courier)

### Chain of Custody (COC) Information

|                                                         |                                         |                             |                                        |
|---------------------------------------------------------|-----------------------------------------|-----------------------------|----------------------------------------|
| Chain of custody present?                               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                        |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                        |
| Chain of custody agrees with sample labels?             | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                        |
| Sample IDs noted by Client on COC?                      | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                        |
| Date and Time of collection noted by Client on COC?     | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                        |
| Sampler's name noted on COC?                            | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                        |
| COC agrees with Quote?                                  | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| COC quote NOT expired?                                  | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |

### Sample Receipt Information

|                                                    |                                         |                             |                                        |
|----------------------------------------------------|-----------------------------------------|-----------------------------|----------------------------------------|
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles?            | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| Shipping container/cooler in good condition?       | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                        |
| Samples in proper containers/bottles?              | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                        |
| Sample containers intact?                          | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                        |
| Sufficient sample volume for indicated test?       | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                        |

### Sample Preservation and Hold Time (HT) Information

|                                           |                                         |                             |                             |
|-------------------------------------------|-----------------------------------------|-----------------------------|-----------------------------|
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| Samples Received on Ice?                  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                             |

(Ice Type: WET ICE )

|                                                                                        |                                                                     |                             |
|----------------------------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------|
| Sample/Temp Blank temperature                                                          | Temp: 0.4°C                                                         | NA <input type="checkbox"/> |
| ZHS conditional analyses: VOA meets zero headspace requirement (VOCs, TPHg/BTEX, RSK)? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | NA <input type="checkbox"/> |
| Sample labels checked for correct preservation?                                        | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |                             |
| pH acceptable upon receipt (Metal: <2)?                                                | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | NA <input type="checkbox"/> |

pH Lot#: HC446507

Lot Expiration: 1/31/2028

### UCMR Samples:

|                                                                                        |                                                          |                                        |
|----------------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------|
| pH tested and acceptable upon receipt (200.7: ≤2; 533: 6 - 8; 537.1: 6 - 8)?           | Yes <input type="checkbox"/> No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| Free Chlorine tested and acceptable upon receipt (<0.1mg/L) [not applicable to 200.7]? | Yes <input type="checkbox"/> No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |

Comments:



# McC Campbell Analytical, Inc.

"When Quality Counts"

## Analytical Report

**WorkOrder:** 2507B37

**Report Created for:** Langan

1 Almaden Blvd, Suite 590  
San Jose, CA 95113

**Project Contact:** Nelson Pi

**Project P.O.:**

**Project:** 770651908; Northtown Campus

**Project Location:**

**Project Received:** 07/17/2025

Analytical Report reviewed & approved for release on 07/28/2025 by:

Tracy Babjar  
Project Manager

*The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current regulatory standards, where applicable, unless otherwise stated.*





## Glossary of Terms & Qualifier Definitions

**Client:** Langan

**WorkOrder:** 2507B37

**Project:** 770651908; Northtown Campus

### Glossary Abbreviation

|                |                                                                                                        |
|----------------|--------------------------------------------------------------------------------------------------------|
| %D             | Serial Dilution Percent Difference                                                                     |
| 95% Interval   | 95% Confident Interval                                                                                 |
| CCV            | Continuing Calibration Verification.                                                                   |
| CCV REC (%)    | % recovery of Continuing Calibration Verification.                                                     |
| CPT            | Consumer Product Testing not NELAP Accredited                                                          |
| DF             | Dilution Factor                                                                                        |
| DI WET         | (DISTLC) Waste Extraction Test using DI water                                                          |
| DISS           | Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)                             |
| DLT            | Dilution Test (Serial Dilution)                                                                        |
| DUP            | Duplicate                                                                                              |
| EDL            | Estimated Detection Limit                                                                              |
| ERS            | External reference sample. Second source calibration verification.                                     |
| ITEF           | International Toxicity Equivalence Factor                                                              |
| LCS            | Laboratory Control Sample                                                                              |
| LCS2           | Second LCS for the batch. Spike level is lower than that for the first LCS; applicable to method 1633. |
| LQL            | Lowest Quantitation Level                                                                              |
| MB             | Method Blank                                                                                           |
| MB IS/SS % Rec | % Recovery of Internal Standard or Surrogate in Method Blank, if applicable                            |
| MB SS % Rec    | % Recovery of Surrogate in Method Blank, if applicable                                                 |
| MDL            | Method Detection Limit <sup>1</sup>                                                                    |
| ML             | Minimum Level of Quantitation                                                                          |
| MS             | Matrix Spike                                                                                           |
| MSD            | Matrix Spike Duplicate                                                                                 |
| NA             | Not Applicable                                                                                         |
| ND             | Not detected at or above the indicated MDL or RL                                                       |
| NR             | Data Not Reported due to matrix interference or insufficient sample amount.                            |
| PDS            | Post Digestion Spike                                                                                   |
| PF             | Prep Factor                                                                                            |
| RD             | Relative Difference                                                                                    |
| RL             | Reporting Limit <sup>2</sup>                                                                           |
| RPD            | Relative Percent Difference                                                                            |
| RRT            | Relative Retention Time                                                                                |
| RSD            | Relative Standard Deviation                                                                            |
| SNR            | Surrogate is diluted out of the calibration range                                                      |

<sup>1</sup> MDL is the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. Definition and Procedure for the Determination of the Method Detection Limit, Revision 2, 40CFR, Part 136, Appendix B, EPA 821-R-16-006, December 2016. Values are based upon our default extraction volume/amount and are subject to change.

<sup>2</sup> RL is the lowest level that can be reliably determined within specified limits of precision and accuracy during routine laboratory operating conditions. (The RL cannot be lower than the lowest calibration standard used in the initial calibration of the instrument and must be greater than the MDL.) Values are based upon our default extraction volume/amount and are subject to change.





## Glossary of Terms & Qualifier Definitions

**Client:** Langan

**WorkOrder:** 2507B37

**Project:** 770651908; Northtown Campus

|            |                                                                                                                                                    |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| SPK Val    | Spike Value                                                                                                                                        |
| SPKRef Val | Spike Reference Value                                                                                                                              |
| SPLP       | Synthetic Precipitation Leachate Procedure                                                                                                         |
| ST         | Sorbent Tube                                                                                                                                       |
| TCLP       | Toxicity Characteristic Leachate Procedure                                                                                                         |
| TEQ        | Toxicity Equivalents                                                                                                                               |
| TNTC       | "Too Numerous to Count;" greater than 250 colonies observed on the plate.                                                                          |
| TZA        | TimeZone Net Adjustment for sample collected outside of MAI's Coordinated Universal Time (UTC). (Adjustment for Daylight Saving is not accounted.) |
| WET (STLC) | Waste Extraction Test (Soluble Threshold Limit Concentration)                                                                                      |

### Analytical Qualifiers

|    |                                                                                                                                                        |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| J  | Result is less than the RL/ML but greater than the MDL. The reported concentration is an estimated value.                                              |
| P  | Agreement between the quantitative dual-column confirmation results exceed method recommended limits of 40% RPD. The lowest concentration is reported. |
| S  | Surrogate recovery outside accepted recovery limits.                                                                                                   |
| a2 | Sample diluted due to cluttered chromatogram.                                                                                                          |
| a3 | Sample diluted due to high organic content interfering with quantitative/or qualitative analysis.                                                      |
| c1 | Surrogate recovery outside of the control limits due to the dilution of the sample.                                                                    |
| c2 | Surrogate recovery outside of the control limits due to suspected matrix interference.                                                                 |
| h5 | GPC (EPA 3640) cleanup                                                                                                                                 |
| h7 | Copper (EPA 3660B) cleanup                                                                                                                             |
| h8 | Charcoal clean up (MAI)                                                                                                                                |

### Quality Control Qualifiers

|     |                                                                                                                                       |
|-----|---------------------------------------------------------------------------------------------------------------------------------------|
| F2  | LCS/LCSD recovery and/or RPD/RSD is out of acceptance criteria.                                                                       |
| F3  | The surrogate standard recovery and/or RPD is outside of acceptance limits.                                                           |
| F5  | LCS/LCSD recovery is outside of acceptance limits; however, the data is acceptable based upon the TNI allowable marginal exceedances. |
| F10 | MS/MSD outside control limits. Physical or chemical interferences exist due to sample matrix.                                         |



## Glossary of Terms & Qualifier Definitions

**Client:** Langan

**WorkOrder:** 2507B37

**Project:** 770651908; Northtown Campus

### PFAS Analytes

|                                                     | <u>Abbreviation</u> | <u>CAS</u>  |
|-----------------------------------------------------|---------------------|-------------|
| 10:2 Fluorotelomer Sulfonic Acid                    | 10:2 FTS            | 120226-60-0 |
| 11-chloroeicosafluoro-3-oxaundecane-1-sulfonic Acid | 11CIPF3OUdS         | 763051-92-9 |
| 2H,2H,3H,3H-Perfluorodecanoic Acid                  | 7:3 FTCA            | 812-70-4    |
| 2H,2H,3H,3H-Perfluorohexanoic Acid                  | 3:3 FTCA            | 356-02-5    |
| 2H,2H,3H,3H-Perfluorooctanoic Acid                  | 5:3 FTCA            | 914637-49-3 |
| 4,8-dioxa-3H-perfluorononanoic Acid                 | ADONA               | 919005-14-4 |
| 4:2 Fluorotelomer Sulfonic Acid                     | 4:2 FTS             | 757124-72-4 |
| 6:2 Fluorotelomer Sulfonic Acid                     | 6:2 FTS             | 27619-97-2  |
| 8:2 Fluorotelomer Sulfonic Acid                     | 8:2 FTS             | 39108-34-4  |
| 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic Acid  | 9CIPF3ONS           | 756426-58-1 |
| Hexafluoropropylene Oxide Dimer Acid                | HFPO-DA             | 13252-13-6  |
| N-Ethyl perfluorooctane sulfonamide                 | EtFOSA              | 4151-50-2   |
| N-ethyl perfluorooctane sulfonamido ethanol         | EtFOSE              | 1691-99-2   |
| N-ethyl perfluorooctanesulfonamidoacetic Acid       | NEtFOSAA            | 2991-50-6   |
| N-Methyl perfluorooctane sulfonamide                | MeFOSA              | 31506-32-8  |
| N-Methyl perfluorooctane sulfonamido ethanol        | MeFOSE              | 24448-09-7  |
| N-methyl perfluorooctanesulfonamidoacetic Acid      | NMeFOSAA            | 2355-31-9   |
| Nonafluoro-3,6-dioxaheptanoic Acid                  | NFDHA               | 151772-58-6 |
| Perfluoro(2-ethoxyethane) sulfonic Acid             | PFEESA              | 113507-82-7 |
| Perfluoro-3-methoxypropanoic Acid                   | PFMPA               | 377-73-1    |
| Perfluoro-4-methoxybutanoic Acid                    | PFMBA               | 863090-89-5 |
| Perfluorobutane sulfonic Acid                       | PFBS                | 375-73-5    |
| Perfluorobutanoic Acid                              | PFBA                | 375-22-4    |
| Perfluorodecane Sulfonic Acid                       | PFDS                | 335-77-3    |
| Perfluorodecanoic Acid                              | PFDA                | 335-76-2    |
| Perfluorododecanoic Acid                            | PFDaA               | 307-55-1    |
| Perfluoroheptane Sulfonic Acid                      | PFHpS               | 375-92-8    |
| Perfluoroheptanoic Acid                             | PFHpA               | 375-85-9    |
| Perfluorohexadecanoic Acid                          | PFHxDA              | 67905-19-5  |
| Perfluorohexane sulfonic Acid                       | PFHxS               | 355-46-4    |
| Perfluorohexanoic Acid                              | PFHxA               | 307-24-4    |
| Perfluorononane Sulfonic Acid                       | PFNS                | 68259-12-1  |
| Perfluorononanoic Acid                              | PFNA                | 375-95-1    |
| Perfluorooctadecanoic Acid                          | PFODA               | 16517-11-6  |
| Perfluorooctane Sulfonamide                         | PFOSA               | 754-91-6    |
| Perfluorooctane Sulfonic Acid                       | PFOS                | 1763-23-1   |





## Glossary of Terms & Qualifier Definitions

**Client:** Langan

**WorkOrder:** 2507B37

**Project:** 770651908; Northtown Campus

Perfluorooctanoic Acid

PFOA 335-67-1

Perfluoropentane Sulfonic Acid

PFPeS 2706-91-4

Perfluoropentanoic Acid

PFPeA 2706-90-3

Perfluorotetradecanoic Acid

PFTeDA 376-06-7

Perfluorotridecanoic Acid

PFTTrDA 72629-94-8

Perfluoroundecanoic Acid

PFUnA 2058-94-8



## Case Narrative

**Client:** Langan  
**Project:** 770651908; Northtown Campus

**Work Order:** 2507B37  
July 28, 2025

### Percent Moisture

In accordance with SW-846, 8000, percent moisture is reported as:

$$[\text{Moisture Weight (g)}] / [\text{Sample Wet Weight (g)}] \times 100$$



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/19/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/g-dry

### Perfluorinated Compounds

| Client ID       | Lab ID        | Matrix | Date Collected      | Instrument             | Batch ID             |
|-----------------|---------------|--------|---------------------|------------------------|----------------------|
| SB-01-9.5       | 2507B37-002B  | Soil   | 07/15/2025 12:42    | LC-MS4 07212025 1633 3 | 321764               |
| <u>Analytes</u> | <u>Result</u> |        | <u>RL</u> <u>DE</u> |                        | <u>Date Analyzed</u> |
| 9CIPF3ONS       | ND            |        | 0.25 1              |                        | 07/21/2025 23:37     |
| 11CIPF3OUdS     | ND            |        | 0.25 1              |                        | 07/21/2025 23:37     |
| 3:3 FTCA        | ND            |        | 0.25 1              |                        | 07/21/2025 23:37     |
| 4:2 FTS         | ND            |        | 0.25 1              |                        | 07/21/2025 23:37     |
| 5:3 FTCA        | ND            |        | 0.25 1              |                        | 07/21/2025 23:37     |
| 6:2 FTS         | ND            |        | 0.25 1              |                        | 07/21/2025 23:37     |
| 7:3 FTCA        | ND            |        | 0.25 1              |                        | 07/21/2025 23:37     |
| 8:2 FTS         | ND            |        | 0.25 1              |                        | 07/21/2025 23:37     |
| 10:2 FTS        | ND            |        | 0.24 1              |                        | 07/21/2025 23:37     |
| ADONA           | ND            |        | 0.25 1              |                        | 07/21/2025 23:37     |
| EtFOSA          | ND            |        | 0.25 1              |                        | 07/21/2025 23:37     |
| EtFOSE          | ND            |        | 0.25 1              |                        | 07/21/2025 23:37     |
| HFPO-DA         | ND            |        | 0.25 1              |                        | 07/21/2025 23:37     |
| MeFOSA          | ND            |        | 0.25 1              |                        | 07/21/2025 23:37     |
| MeFOSE          | ND            |        | 0.25 1              |                        | 07/21/2025 23:37     |
| NEtFOSAA        | ND            |        | 0.25 1              |                        | 07/21/2025 23:37     |
| NFDHA           | ND            |        | 0.25 1              |                        | 07/21/2025 23:37     |
| NMeFOSAA        | ND            |        | 0.25 1              |                        | 07/21/2025 23:37     |
| PFBA            | ND            |        | 0.25 1              |                        | 07/21/2025 23:37     |
| PFBS            | ND            |        | 0.25 1              |                        | 07/21/2025 23:37     |
| PFDA            | ND            |        | 0.25 1              |                        | 07/21/2025 23:37     |
| PFDoA           | ND            |        | 0.25 1              |                        | 07/21/2025 23:37     |
| PFDoS           | ND            |        | 0.25 1              |                        | 07/21/2025 23:37     |
| PFDS            | ND            |        | 0.25 1              |                        | 07/21/2025 23:37     |
| PFEESA          | ND            |        | 0.25 1              |                        | 07/21/2025 23:37     |
| PFHpA           | ND            |        | 0.25 1              |                        | 07/21/2025 23:37     |
| PFHpS           | ND            |        | 0.25 1              |                        | 07/21/2025 23:37     |
| PFHxA           | ND            |        | 0.25 1              |                        | 07/21/2025 23:37     |
| PFHxDA          | ND            |        | 0.25 1              |                        | 07/21/2025 23:37     |
| PFHxS           | ND            |        | 0.25 1              |                        | 07/21/2025 23:37     |
| PFMBA           | ND            |        | 0.25 1              |                        | 07/21/2025 23:37     |
| PFMPA           | ND            |        | 0.25 1              |                        | 07/21/2025 23:37     |
| PFNA            | ND            |        | 0.25 1              |                        | 07/21/2025 23:37     |
| PFNS            | ND            |        | 0.25 1              |                        | 07/21/2025 23:37     |
| PFOA            | ND            |        | 0.25 1              |                        | 07/21/2025 23:37     |
| PFODA           | ND            |        | 0.25 1              |                        | 07/21/2025 23:37     |

(Cont.)



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/19/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/g-dry

### Perfluorinated Compounds

| Client ID       | Lab ID        | Matrix | Date Collected   |           | Instrument             | Batch ID |
|-----------------|---------------|--------|------------------|-----------|------------------------|----------|
| SB-01-9.5       | 2507B37-002B  | Soil   | 07/15/2025 12:42 |           | LC-MS4 07212025 1633 3 | 321764   |
| <u>Analytes</u> | <u>Result</u> |        | <u>RL</u>        | <u>DE</u> | <u>Date Analyzed</u>   |          |
| PFOS            | ND            |        | 0.25             | 1         | 07/21/2025 23:37       |          |
| PFOSA           | ND            |        | 0.25             | 1         | 07/21/2025 23:37       |          |
| PFPeA           | ND            |        | 0.25             | 1         | 07/21/2025 23:37       |          |
| PFPeS           | ND            |        | 0.25             | 1         | 07/21/2025 23:37       |          |
| PFTeDA          | ND            |        | 0.25             | 1         | 07/21/2025 23:37       |          |
| PFTTrDA         | ND            |        | 0.25             | 1         | 07/21/2025 23:37       |          |
| PFUnA           | ND            |        | 0.25             | 1         | 07/21/2025 23:37       |          |



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/19/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/g-dry

### Perfluorinated Compounds

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument             | Batch ID |
|-----------|--------------|--------|------------------|------------------------|----------|
| SB-01-9.5 | 2507B37-002B | Soil   | 07/15/2025 12:42 | LC-MS4 07212025 1633 3 | 321764   |

| Analytes          | Result         | RL            | DE        | Date Analyzed    |
|-------------------|----------------|---------------|-----------|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | <u>Limits</u> | <u>DE</u> |                  |
| 13C2-4:2 FTS      | 91             | 20-150        | 1         | 07/21/2025 23:37 |
| 13C2-6:2 FTS      | 88             | 20-150        | 1         | 07/21/2025 23:37 |
| 13C2-8:2 FTS      | 101            | 20-150        | 1         | 07/21/2025 23:37 |
| 13C2-PFDoA        | 91             | 20-150        | 1         | 07/21/2025 23:37 |
| 13C2-PFTeDA       | 71             | 20-150        | 1         | 07/21/2025 23:37 |
| 13C3-HFPO-DA      | 96             | 20-150        | 1         | 07/21/2025 23:37 |
| 13C3-PFBS         | 88             | 20-150        | 1         | 07/21/2025 23:37 |
| 13C3-PFHxS        | 94             | 20-150        | 1         | 07/21/2025 23:37 |
| 13C4-PFBA         | 93             | 20-150        | 1         | 07/21/2025 23:37 |
| 13C4-PFHpA        | 102            | 20-150        | 1         | 07/21/2025 23:37 |
| 13C5-PFHxA        | 107            | 20-150        | 1         | 07/21/2025 23:37 |
| 13C5-PFPeA        | 94             | 20-150        | 1         | 07/21/2025 23:37 |
| 13C6-PFDA         | 100            | 20-150        | 1         | 07/21/2025 23:37 |
| 13C7-PFUdA        | 90             | 20-150        | 1         | 07/21/2025 23:37 |
| 13C8-PFOA         | 95             | 20-150        | 1         | 07/21/2025 23:37 |
| 13C8-PFOS         | 96             | 20-150        | 1         | 07/21/2025 23:37 |
| 13C8-PFOSA        | 97             | 20-150        | 1         | 07/21/2025 23:37 |
| 13C9-PFNA         | 97             | 20-150        | 1         | 07/21/2025 23:37 |
| d3-MeFOSAA        | 96             | 20-150        | 1         | 07/21/2025 23:37 |
| d5-EtFOSAA        | 72             | 20-150        | 1         | 07/21/2025 23:37 |
| 13C2-PFHxDA       | 80             | 20-150        | 1         | 07/21/2025 23:37 |
| d3-MeFOSA         | 84             | 20-150        | 1         | 07/21/2025 23:37 |
| d5-EtFOSA         | 82             | 20-150        | 1         | 07/21/2025 23:37 |
| d7N-MeFOSE1       | 77             | 20-150        | 1         | 07/21/2025 23:37 |
| d9N-EtFOSE1       | 82             | 20-150        | 1         | 07/21/2025 23:37 |
| 13C2-10:2 FTS     | 88             | 20-150        | 1         | 07/21/2025 23:37 |

Analyst(s): PJA



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/19/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/g-dry

### Perfluorinated Compounds

| Client ID       | Lab ID        | Matrix | Date Collected   |           | Instrument             | Batch ID |
|-----------------|---------------|--------|------------------|-----------|------------------------|----------|
| SB-02-10        | 2507B37-004B  | Soil   | 07/15/2025 09:59 |           | LC-MS4 07212025 1633 3 | 321764   |
| <u>Analytes</u> | <u>Result</u> |        | <u>RL</u>        | <u>DE</u> | <u>Date Analyzed</u>   |          |
| 9CIPF3ONS       | ND            |        | 0.24             | 1         | 07/21/2025 23:49       |          |
| 11CIPF3OUdS     | ND            |        | 0.24             | 1         | 07/21/2025 23:49       |          |
| 3:3 FTCA        | ND            |        | 0.24             | 1         | 07/21/2025 23:49       |          |
| 4:2 FTS         | ND            |        | 0.24             | 1         | 07/21/2025 23:49       |          |
| 5:3 FTCA        | ND            |        | 0.24             | 1         | 07/21/2025 23:49       |          |
| 6:2 FTS         | ND            |        | 0.24             | 1         | 07/21/2025 23:49       |          |
| 7:3 FTCA        | ND            |        | 0.24             | 1         | 07/21/2025 23:49       |          |
| 8:2 FTS         | ND            |        | 0.24             | 1         | 07/21/2025 23:49       |          |
| 10:2 FTS        | ND            |        | 0.23             | 1         | 07/21/2025 23:49       |          |
| ADONA           | ND            |        | 0.24             | 1         | 07/21/2025 23:49       |          |
| EtFOSA          | ND            |        | 0.24             | 1         | 07/21/2025 23:49       |          |
| EtFOSE          | ND            |        | 0.24             | 1         | 07/21/2025 23:49       |          |
| HFPO-DA         | ND            |        | 0.24             | 1         | 07/21/2025 23:49       |          |
| MeFOSA          | ND            |        | 0.24             | 1         | 07/21/2025 23:49       |          |
| MeFOSE          | ND            |        | 0.24             | 1         | 07/21/2025 23:49       |          |
| NEtFOSAA        | ND            |        | 0.24             | 1         | 07/21/2025 23:49       |          |
| NFDHA           | ND            |        | 0.24             | 1         | 07/21/2025 23:49       |          |
| NMeFOSAA        | ND            |        | 0.24             | 1         | 07/21/2025 23:49       |          |
| PFBA            | ND            |        | 0.24             | 1         | 07/21/2025 23:49       |          |
| PFBS            | ND            |        | 0.24             | 1         | 07/21/2025 23:49       |          |
| PFDA            | ND            |        | 0.24             | 1         | 07/21/2025 23:49       |          |
| PFDaA           | ND            |        | 0.24             | 1         | 07/21/2025 23:49       |          |
| PFDoS           | ND            |        | 0.24             | 1         | 07/21/2025 23:49       |          |
| PFDS            | ND            |        | 0.24             | 1         | 07/21/2025 23:49       |          |
| PFEESA          | ND            |        | 0.24             | 1         | 07/21/2025 23:49       |          |
| PFHpA           | ND            |        | 0.24             | 1         | 07/21/2025 23:49       |          |
| PFHpS           | ND            |        | 0.24             | 1         | 07/21/2025 23:49       |          |
| PFHxA           | ND            |        | 0.24             | 1         | 07/21/2025 23:49       |          |
| PFHxDA          | ND            |        | 0.24             | 1         | 07/21/2025 23:49       |          |
| PFHxS           | ND            |        | 0.24             | 1         | 07/21/2025 23:49       |          |
| PFMBA           | ND            |        | 0.24             | 1         | 07/21/2025 23:49       |          |
| PFMPA           | ND            |        | 0.24             | 1         | 07/21/2025 23:49       |          |
| PFNA            | ND            |        | 0.24             | 1         | 07/21/2025 23:49       |          |
| PFNS            | ND            |        | 0.24             | 1         | 07/21/2025 23:49       |          |
| PFOA            | ND            |        | 0.24             | 1         | 07/21/2025 23:49       |          |
| PFODA           | ND            |        | 0.24             | 1         | 07/21/2025 23:49       |          |

(Cont.)



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/19/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/g-dry

### Perfluorinated Compounds

| Client ID       | Lab ID        | Matrix | Date Collected   |           | Instrument             | Batch ID |
|-----------------|---------------|--------|------------------|-----------|------------------------|----------|
| SB-02-10        | 2507B37-004B  | Soil   | 07/15/2025 09:59 |           | LC-MS4 07212025 1633 3 | 321764   |
| <u>Analytes</u> | <u>Result</u> |        | <u>RL</u>        | <u>DE</u> | <u>Date Analyzed</u>   |          |
| PFOS            | ND            |        | 0.24             | 1         | 07/21/2025 23:49       |          |
| PFOSA           | ND            |        | 0.24             | 1         | 07/21/2025 23:49       |          |
| PFPeA           | ND            |        | 0.24             | 1         | 07/21/2025 23:49       |          |
| PFPeS           | ND            |        | 0.24             | 1         | 07/21/2025 23:49       |          |
| PFTeDA          | ND            |        | 0.24             | 1         | 07/21/2025 23:49       |          |
| PFTTrDA         | ND            |        | 0.24             | 1         | 07/21/2025 23:49       |          |
| PFUnA           | ND            |        | 0.24             | 1         | 07/21/2025 23:49       |          |



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/19/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/g-dry

### Perfluorinated Compounds

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument             | Batch ID |
|-----------|--------------|--------|------------------|------------------------|----------|
| SB-02-10  | 2507B37-004B | Soil   | 07/15/2025 09:59 | LC-MS4 07212025 1633 3 | 321764   |

| Analytes          | Result         | RL            | DE        | Date Analyzed    |
|-------------------|----------------|---------------|-----------|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | <u>Limits</u> | <u>DE</u> |                  |
| 13C2-4:2 FTS      | 95             | 20-150        | 1         | 07/21/2025 23:49 |
| 13C2-6:2 FTS      | 100            | 20-150        | 1         | 07/21/2025 23:49 |
| 13C2-8:2 FTS      | 102            | 20-150        | 1         | 07/21/2025 23:49 |
| 13C2-PFDoA        | 94             | 20-150        | 1         | 07/21/2025 23:49 |
| 13C2-PFTeDA       | 74             | 20-150        | 1         | 07/21/2025 23:49 |
| 13C3-HFPO-DA      | 101            | 20-150        | 1         | 07/21/2025 23:49 |
| 13C3-PFBS         | 94             | 20-150        | 1         | 07/21/2025 23:49 |
| 13C3-PFHxS        | 98             | 20-150        | 1         | 07/21/2025 23:49 |
| 13C4-PFBA         | 100            | 20-150        | 1         | 07/21/2025 23:49 |
| 13C4-PFHpA        | 100            | 20-150        | 1         | 07/21/2025 23:49 |
| 13C5-PFHxA        | 96             | 20-150        | 1         | 07/21/2025 23:49 |
| 13C5-PFPeA        | 98             | 20-150        | 1         | 07/21/2025 23:49 |
| 13C6-PFDA         | 101            | 20-150        | 1         | 07/21/2025 23:49 |
| 13C7-PFUdA        | 95             | 20-150        | 1         | 07/21/2025 23:49 |
| 13C8-PFOA         | 102            | 20-150        | 1         | 07/21/2025 23:49 |
| 13C8-PFOS         | 100            | 20-150        | 1         | 07/21/2025 23:49 |
| 13C8-PFOSA        | 100            | 20-150        | 1         | 07/21/2025 23:49 |
| 13C9-PFNA         | 101            | 20-150        | 1         | 07/21/2025 23:49 |
| d3-MeFOSAA        | 95             | 20-150        | 1         | 07/21/2025 23:49 |
| d5-EtFOSAA        | 68             | 20-150        | 1         | 07/21/2025 23:49 |
| 13C2-PFHxDA       | 83             | 20-150        | 1         | 07/21/2025 23:49 |
| d3-MeFOSA         | 82             | 20-150        | 1         | 07/21/2025 23:49 |
| d5-EtFOSA         | 82             | 20-150        | 1         | 07/21/2025 23:49 |
| d7N-MeFOSE1       | 80             | 20-150        | 1         | 07/21/2025 23:49 |
| d9N-EtFOSE1       | 82             | 20-150        | 1         | 07/21/2025 23:49 |
| 13C2-10:2 FTS     | 94             | 20-150        | 1         | 07/21/2025 23:49 |

Analyst(s): PJA





## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/19/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/g-dry

### Perfluorinated Compounds

| Client ID       | Lab ID        | Matrix | Date Collected   |           | Instrument             | Batch ID |
|-----------------|---------------|--------|------------------|-----------|------------------------|----------|
| SB-03-10        | 2507B37-006B  | Soil   | 07/15/2025 15:09 |           | LC-MS4 07212025 1633 3 | 321764   |
| <u>Analytes</u> | <u>Result</u> |        | <u>RL</u>        | <u>DE</u> | <u>Date Analyzed</u>   |          |
| 9CIPF3ONS       | ND            |        | 0.24             | 1         | 07/22/2025 00:01       |          |
| 11CIPF3OUdS     | ND            |        | 0.24             | 1         | 07/22/2025 00:01       |          |
| 3:3 FTCA        | ND            |        | 0.24             | 1         | 07/22/2025 00:01       |          |
| 4:2 FTS         | ND            |        | 0.24             | 1         | 07/22/2025 00:01       |          |
| 5:3 FTCA        | ND            |        | 0.24             | 1         | 07/22/2025 00:01       |          |
| 6:2 FTS         | ND            |        | 0.24             | 1         | 07/22/2025 00:01       |          |
| 7:3 FTCA        | ND            |        | 0.24             | 1         | 07/22/2025 00:01       |          |
| 8:2 FTS         | ND            |        | 0.48             | 2         | 07/22/2025 18:05       |          |
| 10:2 FTS        | ND            |        | 0.47             | 2         | 07/22/2025 18:05       |          |
| ADONA           | ND            |        | 0.24             | 1         | 07/22/2025 00:01       |          |
| EtFOSA          | ND            |        | 0.24             | 1         | 07/22/2025 00:01       |          |
| EtFOSE          | ND            |        | 0.24             | 1         | 07/22/2025 00:01       |          |
| HFPO-DA         | ND            |        | 0.24             | 1         | 07/22/2025 00:01       |          |
| MeFOSA          | ND            |        | 0.24             | 1         | 07/22/2025 00:01       |          |
| MeFOSE          | ND            |        | 0.24             | 1         | 07/22/2025 00:01       |          |
| NEtFOSAA        | ND            |        | 0.24             | 1         | 07/22/2025 00:01       |          |
| NFDHA           | ND            |        | 0.24             | 1         | 07/22/2025 00:01       |          |
| NMeFOSAA        | ND            |        | 0.24             | 1         | 07/22/2025 00:01       |          |
| PFBA            | ND            |        | 0.24             | 1         | 07/22/2025 00:01       |          |
| PFBS            | ND            |        | 0.24             | 1         | 07/22/2025 00:01       |          |
| PFDA            | ND            |        | 0.24             | 1         | 07/22/2025 00:01       |          |
| PFDoA           | ND            |        | 0.24             | 1         | 07/22/2025 00:01       |          |
| PFDoS           | ND            |        | 0.24             | 1         | 07/22/2025 00:01       |          |
| PFDS            | ND            |        | 0.24             | 1         | 07/22/2025 00:01       |          |
| PFEESA          | ND            |        | 0.24             | 1         | 07/22/2025 00:01       |          |
| PFHpA           | ND            |        | 0.24             | 1         | 07/22/2025 00:01       |          |
| PFHpS           | ND            |        | 0.24             | 1         | 07/22/2025 00:01       |          |
| PFHxA           | ND            |        | 0.24             | 1         | 07/22/2025 00:01       |          |
| PFHxDA          | ND            |        | 0.24             | 1         | 07/22/2025 00:01       |          |
| PFHxS           | ND            |        | 0.24             | 1         | 07/22/2025 00:01       |          |
| PFMBA           | ND            |        | 0.24             | 1         | 07/22/2025 00:01       |          |
| PFMPA           | ND            |        | 0.24             | 1         | 07/22/2025 00:01       |          |
| PFNA            | ND            |        | 0.24             | 1         | 07/22/2025 00:01       |          |
| PFNS            | ND            |        | 0.24             | 1         | 07/22/2025 00:01       |          |
| PFOA            | ND            |        | 0.24             | 1         | 07/22/2025 00:01       |          |
| PFODA           | ND            |        | 0.24             | 1         | 07/22/2025 00:01       |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/19/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/g-dry

### Perfluorinated Compounds

| Client ID       | Lab ID        | Matrix | Date Collected   |           | Instrument             | Batch ID |
|-----------------|---------------|--------|------------------|-----------|------------------------|----------|
| SB-03-10        | 2507B37-006B  | Soil   | 07/15/2025 15:09 |           | LC-MS4 07212025 1633 3 | 321764   |
| <u>Analytes</u> | <u>Result</u> |        | <u>RL</u>        | <u>DE</u> | <u>Date Analyzed</u>   |          |
| PFOS            | 0.33          |        | 0.24             | 1         | 07/22/2025 00:01       |          |
| PFOSA           | ND            |        | 0.24             | 1         | 07/22/2025 00:01       |          |
| PFPeA           | ND            |        | 0.24             | 1         | 07/22/2025 00:01       |          |
| PFPeS           | ND            |        | 0.24             | 1         | 07/22/2025 00:01       |          |
| PFTeDA          | ND            |        | 0.24             | 1         | 07/22/2025 00:01       |          |
| PFTeDA          | ND            |        | 0.24             | 1         | 07/22/2025 00:01       |          |
| PFTeDA          | ND            |        | 0.24             | 1         | 07/22/2025 00:01       |          |



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/19/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/g-dry

### Perfluorinated Compounds

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument             | Batch ID |
|-----------|--------------|--------|------------------|------------------------|----------|
| SB-03-10  | 2507B37-006B | Soil   | 07/15/2025 15:09 | LC-MS4 07212025 1633 3 | 321764   |

| Analytes          | Result         | RL            | DE        | Date Analyzed    |
|-------------------|----------------|---------------|-----------|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | <u>Limits</u> | <u>DE</u> |                  |
| 13C2-4:2 FTS      | 133            | 20-150        | 1         | 07/22/2025 00:01 |
| 13C2-6:2 FTS      | 147            | 20-150        | 1         | 07/22/2025 00:01 |
| 13C2-PFDoA        | 115            | 20-150        | 1         | 07/22/2025 00:01 |
| 13C2-PFTeDA       | 90             | 20-150        | 1         | 07/22/2025 00:01 |
| 13C3-HFPO-DA      | 118            | 20-150        | 1         | 07/22/2025 00:01 |
| 13C3-PFBS         | 104            | 20-150        | 1         | 07/22/2025 00:01 |
| 13C3-PFHxS        | 111            | 20-150        | 1         | 07/22/2025 00:01 |
| 13C4-PFBA         | 111            | 20-150        | 1         | 07/22/2025 00:01 |
| 13C4-PFHpA        | 122            | 20-150        | 1         | 07/22/2025 00:01 |
| 13C5-PFHxA        | 117            | 20-150        | 1         | 07/22/2025 00:01 |
| 13C5-PFPeA        | 116            | 20-150        | 1         | 07/22/2025 00:01 |
| 13C6-PFDA         | 112            | 20-150        | 1         | 07/22/2025 00:01 |
| 13C7-PFUdA        | 116            | 20-150        | 1         | 07/22/2025 00:01 |
| 13C8-PFOA         | 115            | 20-150        | 1         | 07/22/2025 00:01 |
| 13C8-PFOS         | 121            | 20-150        | 1         | 07/22/2025 00:01 |
| 13C8-PFOSA        | 130            | 20-150        | 1         | 07/22/2025 00:01 |
| 13C9-PFNA         | 114            | 20-150        | 1         | 07/22/2025 00:01 |
| d3-MeFOSAA        | 116            | 20-150        | 1         | 07/22/2025 00:01 |
| d5-EtFOSAA        | 93             | 20-150        | 1         | 07/22/2025 00:01 |
| 13C2-PFHxDA       | 77             | 20-150        | 1         | 07/22/2025 00:01 |
| d3-MeFOSA         | 95             | 20-150        | 1         | 07/22/2025 00:01 |
| d5-EtFOSA         | 94             | 20-150        | 1         | 07/22/2025 00:01 |
| d7N-MeFOSE1       | 102            | 20-150        | 1         | 07/22/2025 00:01 |
| d9N-EtFOSE1       | 99             | 20-150        | 1         | 07/22/2025 00:01 |
| 13C2-8:2 FTS      | 77             | 20-150        | 2         | 07/22/2025 18:05 |
| 13C2-10:2 FTS     | 77             | 20-150        | 2         | 07/22/2025 18:05 |

Analyst(s): PJA

(Cont.)



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/19/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/g-dry

### Perfluorinated Compounds

| Client ID       | Lab ID        | Matrix | Date Collected   |           | Instrument             | Batch ID |
|-----------------|---------------|--------|------------------|-----------|------------------------|----------|
| SB-04-5         | 2507B37-008B  | Soil   | 07/16/2025 10:41 |           | LC-MS4 07212025 1633 3 | 321764   |
| <u>Analytes</u> | <u>Result</u> |        | <u>RL</u>        | <u>DE</u> | <u>Date Analyzed</u>   |          |
| 9CIPF3ONS       | ND            |        | 0.25             | 1         | 07/22/2025 00:13       |          |
| 11CIPF3OUdS     | ND            |        | 0.25             | 1         | 07/22/2025 00:13       |          |
| 3:3 FTCA        | ND            |        | 0.25             | 1         | 07/22/2025 00:13       |          |
| 4:2 FTS         | ND            |        | 0.25             | 1         | 07/22/2025 00:13       |          |
| 5:3 FTCA        | ND            |        | 0.25             | 1         | 07/22/2025 00:13       |          |
| 6:2 FTS         | ND            |        | 0.25             | 1         | 07/22/2025 00:13       |          |
| 7:3 FTCA        | ND            |        | 0.25             | 1         | 07/22/2025 00:13       |          |
| 8:2 FTS         | ND            |        | 0.25             | 1         | 07/22/2025 00:13       |          |
| 10:2 FTS        | ND            |        | 0.24             | 1         | 07/22/2025 00:13       |          |
| ADONA           | ND            |        | 0.25             | 1         | 07/22/2025 00:13       |          |
| EtFOSA          | ND            |        | 0.25             | 1         | 07/22/2025 00:13       |          |
| EtFOSE          | ND            |        | 0.25             | 1         | 07/22/2025 00:13       |          |
| HFPO-DA         | ND            |        | 0.25             | 1         | 07/22/2025 00:13       |          |
| MeFOSA          | ND            |        | 0.25             | 1         | 07/22/2025 00:13       |          |
| MeFOSE          | ND            |        | 0.25             | 1         | 07/22/2025 00:13       |          |
| NEtFOSAA        | ND            |        | 0.25             | 1         | 07/22/2025 00:13       |          |
| NFDHA           | ND            |        | 0.25             | 1         | 07/22/2025 00:13       |          |
| NMeFOSAA        | ND            |        | 0.25             | 1         | 07/22/2025 00:13       |          |
| PFBA            | ND            |        | 0.25             | 1         | 07/22/2025 00:13       |          |
| PFBS            | ND            |        | 0.25             | 1         | 07/22/2025 00:13       |          |
| PFDA            | ND            |        | 0.25             | 1         | 07/22/2025 00:13       |          |
| PFDaA           | ND            |        | 0.25             | 1         | 07/22/2025 00:13       |          |
| PFDoS           | ND            |        | 0.25             | 1         | 07/22/2025 00:13       |          |
| PFDS            | ND            |        | 0.25             | 1         | 07/22/2025 00:13       |          |
| PFEESA          | ND            |        | 0.25             | 1         | 07/22/2025 00:13       |          |
| PFHpA           | ND            |        | 0.25             | 1         | 07/22/2025 00:13       |          |
| PFHpS           | ND            |        | 0.25             | 1         | 07/22/2025 00:13       |          |
| PFHxA           | ND            |        | 0.25             | 1         | 07/22/2025 00:13       |          |
| PFHxDA          | ND            |        | 0.25             | 1         | 07/22/2025 00:13       |          |
| PFHxS           | ND            |        | 0.25             | 1         | 07/22/2025 00:13       |          |
| PFMBA           | ND            |        | 0.25             | 1         | 07/22/2025 00:13       |          |
| PFMPA           | ND            |        | 0.25             | 1         | 07/22/2025 00:13       |          |
| PFNA            | ND            |        | 0.25             | 1         | 07/22/2025 00:13       |          |
| PFNS            | ND            |        | 0.25             | 1         | 07/22/2025 00:13       |          |
| PFOA            | ND            |        | 0.25             | 1         | 07/22/2025 00:13       |          |
| PFODA           | ND            |        | 0.25             | 1         | 07/22/2025 00:13       |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/19/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/g-dry

### Perfluorinated Compounds

| Client ID       | Lab ID        | Matrix | Date Collected   |           | Instrument             | Batch ID |
|-----------------|---------------|--------|------------------|-----------|------------------------|----------|
| SB-04-5         | 2507B37-008B  | Soil   | 07/16/2025 10:41 |           | LC-MS4 07212025 1633 3 | 321764   |
| <u>Analytes</u> | <u>Result</u> |        | <u>RL</u>        | <u>DE</u> | <u>Date Analyzed</u>   |          |
| PFOS            | ND            |        | 0.25             | 1         | 07/22/2025 00:13       |          |
| PFOSA           | ND            |        | 0.25             | 1         | 07/22/2025 00:13       |          |
| PFPeA           | ND            |        | 0.25             | 1         | 07/22/2025 00:13       |          |
| PFPeS           | ND            |        | 0.25             | 1         | 07/22/2025 00:13       |          |
| PFTeDA          | ND            |        | 0.25             | 1         | 07/22/2025 00:13       |          |
| PFTeDA          | ND            |        | 0.25             | 1         | 07/22/2025 00:13       |          |
| PFTeDA          | ND            |        | 0.25             | 1         | 07/22/2025 00:13       |          |



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/19/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/g-dry

### Perfluorinated Compounds

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument             | Batch ID |
|-----------|--------------|--------|------------------|------------------------|----------|
| SB-04-5   | 2507B37-008B | Soil   | 07/16/2025 10:41 | LC-MS4 07212025 1633 3 | 321764   |

| Analytes          | Result         | RL            | DE        | Date Analyzed    |
|-------------------|----------------|---------------|-----------|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | <u>Limits</u> | <u>DE</u> |                  |
| 13C2-4:2 FTS      | 85             | 20-150        | 1         | 07/22/2025 00:13 |
| 13C2-6:2 FTS      | 84             | 20-150        | 1         | 07/22/2025 00:13 |
| 13C2-8:2 FTS      | 106            | 20-150        | 1         | 07/22/2025 00:13 |
| 13C2-PFDoA        | 82             | 20-150        | 1         | 07/22/2025 00:13 |
| 13C2-PFTeDA       | 66             | 20-150        | 1         | 07/22/2025 00:13 |
| 13C3-HFPO-DA      | 85             | 20-150        | 1         | 07/22/2025 00:13 |
| 13C3-PFBS         | 79             | 20-150        | 1         | 07/22/2025 00:13 |
| 13C3-PFHxS        | 85             | 20-150        | 1         | 07/22/2025 00:13 |
| 13C4-PFBA         | 86             | 20-150        | 1         | 07/22/2025 00:13 |
| 13C4-PFHpA        | 86             | 20-150        | 1         | 07/22/2025 00:13 |
| 13C5-PFHxA        | 84             | 20-150        | 1         | 07/22/2025 00:13 |
| 13C5-PFPeA        | 84             | 20-150        | 1         | 07/22/2025 00:13 |
| 13C6-PFDA         | 85             | 20-150        | 1         | 07/22/2025 00:13 |
| 13C7-PFUdA        | 79             | 20-150        | 1         | 07/22/2025 00:13 |
| 13C8-PFOA         | 82             | 20-150        | 1         | 07/22/2025 00:13 |
| 13C8-PFOS         | 88             | 20-150        | 1         | 07/22/2025 00:13 |
| 13C8-PFOSA        | 88             | 20-150        | 1         | 07/22/2025 00:13 |
| 13C9-PFNA         | 81             | 20-150        | 1         | 07/22/2025 00:13 |
| d3-MeFOSAA        | 86             | 20-150        | 1         | 07/22/2025 00:13 |
| d5-EtFOSAA        | 66             | 20-150        | 1         | 07/22/2025 00:13 |
| 13C2-PFHxDA       | 71             | 20-150        | 1         | 07/22/2025 00:13 |
| d3-MeFOSA         | 63             | 20-150        | 1         | 07/22/2025 00:13 |
| d5-EtFOSA         | 63             | 20-150        | 1         | 07/22/2025 00:13 |
| d7N-MeFOSE1       | 74             | 20-150        | 1         | 07/22/2025 00:13 |
| d9N-EtFOSE1       | 77             | 20-150        | 1         | 07/22/2025 00:13 |
| 13C2-10:2 FTS     | 122            | 20-150        | 1         | 07/22/2025 00:13 |

Analyst(s): PJA



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/19/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/g-dry

### Perfluorinated Compounds

| Client ID       | Lab ID        | Matrix | Date Collected      | Instrument             | Batch ID             |
|-----------------|---------------|--------|---------------------|------------------------|----------------------|
| SB-05-5         | 2507B37-010B  | Soil   | 07/16/2025 08:25    | LC-MS4 07212025 1633 3 | 321764               |
| <u>Analytes</u> | <u>Result</u> |        | <u>RL</u> <u>DE</u> |                        | <u>Date Analyzed</u> |
| 9CIPF3ONS       | ND            |        | 0.23 1              |                        | 07/22/2025 00:25     |
| 11CIPF3OUDS     | ND            |        | 0.23 1              |                        | 07/22/2025 00:25     |
| 3:3 FTCA        | ND            |        | 0.23 1              |                        | 07/22/2025 00:25     |
| 4:2 FTS         | ND            |        | 0.23 1              |                        | 07/22/2025 00:25     |
| 5:3 FTCA        | ND            |        | 0.23 1              |                        | 07/22/2025 00:25     |
| 6:2 FTS         | ND            |        | 0.23 1              |                        | 07/22/2025 00:25     |
| 7:3 FTCA        | ND            |        | 0.23 1              |                        | 07/22/2025 00:25     |
| 8:2 FTS         | ND            |        | 0.23 1              |                        | 07/22/2025 00:25     |
| 10:2 FTS        | ND            |        | 0.22 1              |                        | 07/22/2025 00:25     |
| ADONA           | ND            |        | 0.23 1              |                        | 07/22/2025 00:25     |
| EtFOSA          | ND            |        | 0.23 1              |                        | 07/22/2025 00:25     |
| EtFOSE          | ND            |        | 0.23 1              |                        | 07/22/2025 00:25     |
| HFPO-DA         | ND            |        | 0.23 1              |                        | 07/22/2025 00:25     |
| MeFOSA          | ND            |        | 0.23 1              |                        | 07/22/2025 00:25     |
| MeFOSE          | ND            |        | 0.23 1              |                        | 07/22/2025 00:25     |
| NEtFOSAA        | ND            |        | 0.23 1              |                        | 07/22/2025 00:25     |
| NFDHA           | ND            |        | 0.23 1              |                        | 07/22/2025 00:25     |
| NMeFOSAA        | ND            |        | 0.23 1              |                        | 07/22/2025 00:25     |
| PFBA            | ND            |        | 0.23 1              |                        | 07/22/2025 00:25     |
| PFBS            | ND            |        | 0.23 1              |                        | 07/22/2025 00:25     |
| PFDA            | ND            |        | 0.23 1              |                        | 07/22/2025 00:25     |
| PFDaA           | ND            |        | 0.23 1              |                        | 07/22/2025 00:25     |
| PFDoS           | ND            |        | 0.23 1              |                        | 07/22/2025 00:25     |
| PFDS            | ND            |        | 0.23 1              |                        | 07/22/2025 00:25     |
| PFEESA          | ND            |        | 0.23 1              |                        | 07/22/2025 00:25     |
| PFHpA           | ND            |        | 0.23 1              |                        | 07/22/2025 00:25     |
| PFHpS           | ND            |        | 0.23 1              |                        | 07/22/2025 00:25     |
| PFHxA           | ND            |        | 0.23 1              |                        | 07/22/2025 00:25     |
| PFHxDA          | ND            |        | 0.23 1              |                        | 07/22/2025 00:25     |
| PFHxS           | ND            |        | 0.23 1              |                        | 07/22/2025 00:25     |
| PFMBA           | ND            |        | 0.23 1              |                        | 07/22/2025 00:25     |
| PFMPA           | ND            |        | 0.23 1              |                        | 07/22/2025 00:25     |
| PFNA            | ND            |        | 0.23 1              |                        | 07/22/2025 00:25     |
| PFNS            | ND            |        | 0.23 1              |                        | 07/22/2025 00:25     |
| PFOA            | ND            |        | 0.23 1              |                        | 07/22/2025 00:25     |
| PFODA           | ND            |        | 0.23 1              |                        | 07/22/2025 00:25     |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/19/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/g-dry

### Perfluorinated Compounds

| Client ID       | Lab ID        | Matrix | Date Collected   |           | Instrument             | Batch ID |
|-----------------|---------------|--------|------------------|-----------|------------------------|----------|
| SB-05-5         | 2507B37-010B  | Soil   | 07/16/2025 08:25 |           | LC-MS4 07212025 1633 3 | 321764   |
| <u>Analytes</u> | <u>Result</u> |        | <u>RL</u>        | <u>DE</u> | <u>Date Analyzed</u>   |          |
| PFOS            | ND            |        | 0.23             | 1         | 07/22/2025 00:25       |          |
| PFOSA           | ND            |        | 0.23             | 1         | 07/22/2025 00:25       |          |
| PFPeA           | ND            |        | 0.23             | 1         | 07/22/2025 00:25       |          |
| PFPeS           | ND            |        | 0.23             | 1         | 07/22/2025 00:25       |          |
| PFTeDA          | ND            |        | 0.23             | 1         | 07/22/2025 00:25       |          |
| PFTrDA          | ND            |        | 0.23             | 1         | 07/22/2025 00:25       |          |
| PFUnA           | ND            |        | 0.23             | 1         | 07/22/2025 00:25       |          |





## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/19/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/g-dry

### Perfluorinated Compounds

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument             | Batch ID |
|-----------|--------------|--------|------------------|------------------------|----------|
| SB-05-5   | 2507B37-010B | Soil   | 07/16/2025 08:25 | LC-MS4 07212025 1633 3 | 321764   |

| Analytes      | Result  | RL     | DE | Date Analyzed    |
|---------------|---------|--------|----|------------------|
| Surrogates    | REC (%) | Limits | DE |                  |
| 13C2-4:2 FTS  | 107     | 20-150 | 1  | 07/22/2025 00:25 |
| 13C2-6:2 FTS  | 104     | 20-150 | 1  | 07/22/2025 00:25 |
| 13C2-8:2 FTS  | 122     | 20-150 | 1  | 07/22/2025 00:25 |
| 13C2-PFDoA    | 111     | 20-150 | 1  | 07/22/2025 00:25 |
| 13C2-PFTeDA   | 89      | 20-150 | 1  | 07/22/2025 00:25 |
| 13C3-HFPO-DA  | 120     | 20-150 | 1  | 07/22/2025 00:25 |
| 13C3-PFBS     | 100     | 20-150 | 1  | 07/22/2025 00:25 |
| 13C3-PFHxS    | 109     | 20-150 | 1  | 07/22/2025 00:25 |
| 13C4-PFBA     | 111     | 20-150 | 1  | 07/22/2025 00:25 |
| 13C4-PFHpA    | 121     | 20-150 | 1  | 07/22/2025 00:25 |
| 13C5-PFHxA    | 122     | 20-150 | 1  | 07/22/2025 00:25 |
| 13C5-PFPeA    | 112     | 20-150 | 1  | 07/22/2025 00:25 |
| 13C6-PFDA     | 109     | 20-150 | 1  | 07/22/2025 00:25 |
| 13C7-PFUdA    | 105     | 20-150 | 1  | 07/22/2025 00:25 |
| 13C8-PFOA     | 109     | 20-150 | 1  | 07/22/2025 00:25 |
| 13C8-PFOS     | 108     | 20-150 | 1  | 07/22/2025 00:25 |
| 13C8-PFOSA    | 114     | 20-150 | 1  | 07/22/2025 00:25 |
| 13C9-PFNA     | 107     | 20-150 | 1  | 07/22/2025 00:25 |
| d3-MeFOSAA    | 108     | 20-150 | 1  | 07/22/2025 00:25 |
| d5-EtFOSAA    | 84      | 20-150 | 1  | 07/22/2025 00:25 |
| 13C2-PFHxDA   | 95      | 20-150 | 1  | 07/22/2025 00:25 |
| d3-MeFOSA     | 86      | 20-150 | 1  | 07/22/2025 00:25 |
| d5-EtFOSA     | 81      | 20-150 | 1  | 07/22/2025 00:25 |
| d7N-MeFOSE1   | 96      | 20-150 | 1  | 07/22/2025 00:25 |
| d9N-EtFOSE1   | 97      | 20-150 | 1  | 07/22/2025 00:25 |
| 13C2-10:2 FTS | 124     | 20-150 | 1  | 07/22/2025 00:25 |

Analyst(s): PJA

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/19/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/g-dry

### Perfluorinated Compounds

| Client ID       | Lab ID        | Matrix | Date Collected      | Instrument             | Batch ID             |
|-----------------|---------------|--------|---------------------|------------------------|----------------------|
| SB-06-5         | 2507B37-012B  | Soil   | 07/16/2025 13:57    | LC-MS4 07212025 1633 3 | 321764               |
| <u>Analytes</u> | <u>Result</u> |        | <u>RL</u> <u>DE</u> |                        | <u>Date Analyzed</u> |
| 9CIPF3ONS       | ND            |        | 0.26 1              |                        | 07/22/2025 00:37     |
| 11CIPF3OUDS     | ND            |        | 0.26 1              |                        | 07/22/2025 00:37     |
| 3:3 FTCA        | ND            |        | 0.26 1              |                        | 07/22/2025 00:37     |
| 4:2 FTS         | ND            |        | 0.26 1              |                        | 07/22/2025 00:37     |
| 5:3 FTCA        | ND            |        | 0.26 1              |                        | 07/22/2025 00:37     |
| 6:2 FTS         | ND            |        | 0.26 1              |                        | 07/22/2025 00:37     |
| 7:3 FTCA        | ND            |        | 0.26 1              |                        | 07/22/2025 00:37     |
| 8:2 FTS         | ND            |        | 0.26 1              |                        | 07/22/2025 00:37     |
| 10:2 FTS        | ND            |        | 0.24 1              |                        | 07/22/2025 00:37     |
| ADONA           | ND            |        | 0.26 1              |                        | 07/22/2025 00:37     |
| EtFOSA          | ND            |        | 0.26 1              |                        | 07/22/2025 00:37     |
| EtFOSE          | ND            |        | 0.26 1              |                        | 07/22/2025 00:37     |
| HFPO-DA         | ND            |        | 0.26 1              |                        | 07/22/2025 00:37     |
| MeFOSA          | ND            |        | 0.26 1              |                        | 07/22/2025 00:37     |
| MeFOSE          | ND            |        | 0.26 1              |                        | 07/22/2025 00:37     |
| NEtFOSAA        | ND            |        | 0.26 1              |                        | 07/22/2025 00:37     |
| NFDHA           | ND            |        | 0.26 1              |                        | 07/22/2025 00:37     |
| NMeFOSAA        | ND            |        | 0.26 1              |                        | 07/22/2025 00:37     |
| PFBA            | ND            |        | 0.26 1              |                        | 07/22/2025 00:37     |
| PFBS            | ND            |        | 0.26 1              |                        | 07/22/2025 00:37     |
| PFDA            | ND            |        | 0.26 1              |                        | 07/22/2025 00:37     |
| PFDaA           | ND            |        | 0.26 1              |                        | 07/22/2025 00:37     |
| PFDoS           | ND            |        | 0.26 1              |                        | 07/22/2025 00:37     |
| PFDS            | ND            |        | 0.26 1              |                        | 07/22/2025 00:37     |
| PFEESA          | ND            |        | 0.26 1              |                        | 07/22/2025 00:37     |
| PFHpA           | ND            |        | 0.26 1              |                        | 07/22/2025 00:37     |
| PFHpS           | ND            |        | 0.26 1              |                        | 07/22/2025 00:37     |
| PFHxA           | ND            |        | 0.26 1              |                        | 07/22/2025 00:37     |
| PFHxDA          | ND            |        | 0.26 1              |                        | 07/22/2025 00:37     |
| PFHxS           | ND            |        | 0.26 1              |                        | 07/22/2025 00:37     |
| PFMBA           | ND            |        | 0.26 1              |                        | 07/22/2025 00:37     |
| PFMPA           | ND            |        | 0.26 1              |                        | 07/22/2025 00:37     |
| PFNA            | ND            |        | 0.26 1              |                        | 07/22/2025 00:37     |
| PFNS            | ND            |        | 0.26 1              |                        | 07/22/2025 00:37     |
| PFOA            | ND            |        | 0.26 1              |                        | 07/22/2025 00:37     |
| PFODA           | ND            |        | 0.26 1              |                        | 07/22/2025 00:37     |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/19/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/g-dry

### Perfluorinated Compounds

| Client ID       | Lab ID        | Matrix | Date Collected   |           | Instrument             | Batch ID |
|-----------------|---------------|--------|------------------|-----------|------------------------|----------|
| SB-06-5         | 2507B37-012B  | Soil   | 07/16/2025 13:57 |           | LC-MS4 07212025 1633 3 | 321764   |
| <u>Analytes</u> | <u>Result</u> |        | <u>RL</u>        | <u>DE</u> | <u>Date Analyzed</u>   |          |
| PFOS            | ND            |        | 0.26             | 1         | 07/22/2025 00:37       |          |
| PFOSA           | ND            |        | 0.26             | 1         | 07/22/2025 00:37       |          |
| PFPeA           | ND            |        | 0.26             | 1         | 07/22/2025 00:37       |          |
| PFPeS           | ND            |        | 0.26             | 1         | 07/22/2025 00:37       |          |
| PFTeDA          | ND            |        | 0.26             | 1         | 07/22/2025 00:37       |          |
| PFTrDA          | ND            |        | 0.26             | 1         | 07/22/2025 00:37       |          |
| PFUnA           | ND            |        | 0.26             | 1         | 07/22/2025 00:37       |          |



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/19/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/g-dry

### Perfluorinated Compounds

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument             | Batch ID |
|-----------|--------------|--------|------------------|------------------------|----------|
| SB-06-5   | 2507B37-012B | Soil   | 07/16/2025 13:57 | LC-MS4 07212025 1633 3 | 321764   |

| Analytes      | Result  | RL     | DE | Date Analyzed    |
|---------------|---------|--------|----|------------------|
| Surrogates    | REC (%) | Limits | DE |                  |
| 13C2-4:2 FTS  | 91      | 20-150 | 1  | 07/22/2025 00:37 |
| 13C2-6:2 FTS  | 89      | 20-150 | 1  | 07/22/2025 00:37 |
| 13C2-8:2 FTS  | 101     | 20-150 | 1  | 07/22/2025 00:37 |
| 13C2-PFDoA    | 90      | 20-150 | 1  | 07/22/2025 00:37 |
| 13C2-PFTeDA   | 72      | 20-150 | 1  | 07/22/2025 00:37 |
| 13C3-HFPO-DA  | 102     | 20-150 | 1  | 07/22/2025 00:37 |
| 13C3-PFBS     | 94      | 20-150 | 1  | 07/22/2025 00:37 |
| 13C3-PFHxS    | 95      | 20-150 | 1  | 07/22/2025 00:37 |
| 13C4-PFBA     | 96      | 20-150 | 1  | 07/22/2025 00:37 |
| 13C4-PFHpA    | 100     | 20-150 | 1  | 07/22/2025 00:37 |
| 13C5-PFHxA    | 105     | 20-150 | 1  | 07/22/2025 00:37 |
| 13C5-PFPeA    | 98      | 20-150 | 1  | 07/22/2025 00:37 |
| 13C6-PFDA     | 96      | 20-150 | 1  | 07/22/2025 00:37 |
| 13C7-PFUdA    | 86      | 20-150 | 1  | 07/22/2025 00:37 |
| 13C8-PFOA     | 95      | 20-150 | 1  | 07/22/2025 00:37 |
| 13C8-PFOS     | 98      | 20-150 | 1  | 07/22/2025 00:37 |
| 13C8-PFOSA    | 101     | 20-150 | 1  | 07/22/2025 00:37 |
| 13C9-PFNA     | 93      | 20-150 | 1  | 07/22/2025 00:37 |
| d3-MeFOSAA    | 81      | 20-150 | 1  | 07/22/2025 00:37 |
| d5-EtFOSAA    | 61      | 20-150 | 1  | 07/22/2025 00:37 |
| 13C2-PFHxDA   | 78      | 20-150 | 1  | 07/22/2025 00:37 |
| d3-MeFOSA     | 75      | 20-150 | 1  | 07/22/2025 00:37 |
| d5-EtFOSA     | 73      | 20-150 | 1  | 07/22/2025 00:37 |
| d7N-MeFOSE1   | 88      | 20-150 | 1  | 07/22/2025 00:37 |
| d9N-EtFOSE1   | 88      | 20-150 | 1  | 07/22/2025 00:37 |
| 13C2-10:2 FTS | 98      | 20-150 | 1  | 07/22/2025 00:37 |

Analyst(s): PJA

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/19/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/g-dry

### Perfluorinated Compounds

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument             | Batch ID |
|-----------|--------------|--------|------------------|------------------------|----------|
| SB-07-5   | 2507B37-014B | Soil   | 07/16/2025 13:23 | LC-MS4 07212025 1633 3 | 321764   |

| Analytes    | Result | RL   | DE | Date Analyzed    |
|-------------|--------|------|----|------------------|
| 9CIPF3ONS   | ND     | 0.24 | 1  | 07/22/2025 00:49 |
| 11CIPF3OUdS | ND     | 0.24 | 1  | 07/22/2025 00:49 |
| 3:3 FTCA    | ND     | 0.24 | 1  | 07/22/2025 00:49 |
| 4:2 FTS     | ND     | 0.24 | 1  | 07/22/2025 00:49 |
| 5:3 FTCA    | ND     | 0.24 | 1  | 07/22/2025 00:49 |
| 6:2 FTS     | ND     | 0.24 | 1  | 07/22/2025 00:49 |
| 7:3 FTCA    | ND     | 0.24 | 1  | 07/22/2025 00:49 |
| 8:2 FTS     | ND     | 0.24 | 1  | 07/22/2025 00:49 |
| 10:2 FTS    | ND     | 0.23 | 1  | 07/22/2025 00:49 |
| ADONA       | ND     | 0.24 | 1  | 07/22/2025 00:49 |
| EtFOSA      | ND     | 0.24 | 1  | 07/22/2025 00:49 |
| EtFOSE      | ND     | 0.24 | 1  | 07/22/2025 00:49 |
| HFPO-DA     | ND     | 0.24 | 1  | 07/22/2025 00:49 |
| MeFOSA      | ND     | 0.24 | 1  | 07/22/2025 00:49 |
| MeFOSE      | ND     | 0.24 | 1  | 07/22/2025 00:49 |
| NEtFOSAA    | ND     | 0.24 | 1  | 07/22/2025 00:49 |
| NFDHA       | ND     | 0.24 | 1  | 07/22/2025 00:49 |
| NMeFOSAA    | ND     | 0.24 | 1  | 07/22/2025 00:49 |
| PFBA        | ND     | 0.24 | 1  | 07/22/2025 00:49 |
| PFBS        | ND     | 0.24 | 1  | 07/22/2025 00:49 |
| PFDA        | ND     | 0.24 | 1  | 07/22/2025 00:49 |
| PFDaA       | ND     | 0.24 | 1  | 07/22/2025 00:49 |
| PFDoS       | ND     | 0.24 | 1  | 07/22/2025 00:49 |
| PFDS        | ND     | 0.24 | 1  | 07/22/2025 00:49 |
| PFEESA      | ND     | 0.24 | 1  | 07/22/2025 00:49 |
| PFHpA       | ND     | 0.24 | 1  | 07/22/2025 00:49 |
| PFHpS       | ND     | 0.24 | 1  | 07/22/2025 00:49 |
| PFHxA       | ND     | 0.24 | 1  | 07/22/2025 00:49 |
| PFHxDA      | ND     | 0.24 | 1  | 07/22/2025 00:49 |
| PFHxS       | ND     | 0.24 | 1  | 07/22/2025 00:49 |
| PFMBA       | ND     | 0.24 | 1  | 07/22/2025 00:49 |
| PFMPA       | ND     | 0.24 | 1  | 07/22/2025 00:49 |
| PFNA        | ND     | 0.24 | 1  | 07/22/2025 00:49 |
| PFNS        | ND     | 0.24 | 1  | 07/22/2025 00:49 |
| PFOA        | ND     | 0.24 | 1  | 07/22/2025 00:49 |
| PFODA       | ND     | 0.24 | 1  | 07/22/2025 00:49 |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/19/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/g-dry

### Perfluorinated Compounds

| Client ID       | Lab ID        | Matrix | Date Collected   |           | Instrument             | Batch ID |
|-----------------|---------------|--------|------------------|-----------|------------------------|----------|
| SB-07-5         | 2507B37-014B  | Soil   | 07/16/2025 13:23 |           | LC-MS4 07212025 1633 3 | 321764   |
| <u>Analytes</u> | <u>Result</u> |        | <u>RL</u>        | <u>DE</u> | <u>Date Analyzed</u>   |          |
| PFOS            | ND            |        | 0.24             | 1         | 07/22/2025 00:49       |          |
| PFOSA           | ND            |        | 0.24             | 1         | 07/22/2025 00:49       |          |
| PFPeA           | ND            |        | 0.24             | 1         | 07/22/2025 00:49       |          |
| PFPeS           | ND            |        | 0.24             | 1         | 07/22/2025 00:49       |          |
| PFTeDA          | ND            |        | 0.24             | 1         | 07/22/2025 00:49       |          |
| PFTTrDA         | ND            |        | 0.24             | 1         | 07/22/2025 00:49       |          |
| PFUnA           | ND            |        | 0.24             | 1         | 07/22/2025 00:49       |          |



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/19/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/g-dry

### Perfluorinated Compounds

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument             | Batch ID |
|-----------|--------------|--------|------------------|------------------------|----------|
| SB-07-5   | 2507B37-014B | Soil   | 07/16/2025 13:23 | LC-MS4 07212025 1633 3 | 321764   |

| Analytes          | Result         | RL            | DE        | Date Analyzed    |
|-------------------|----------------|---------------|-----------|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | <u>Limits</u> | <u>DE</u> |                  |
| 13C2-4:2 FTS      | 96             | 20-150        | 1         | 07/22/2025 00:49 |
| 13C2-6:2 FTS      | 100            | 20-150        | 1         | 07/22/2025 00:49 |
| 13C2-8:2 FTS      | 111            | 20-150        | 1         | 07/22/2025 00:49 |
| 13C2-PFDoA        | 88             | 20-150        | 1         | 07/22/2025 00:49 |
| 13C2-PFTeDA       | 65             | 20-150        | 1         | 07/22/2025 00:49 |
| 13C3-HFPO-DA      | 99             | 20-150        | 1         | 07/22/2025 00:49 |
| 13C3-PFBS         | 96             | 20-150        | 1         | 07/22/2025 00:49 |
| 13C3-PFHxS        | 100            | 20-150        | 1         | 07/22/2025 00:49 |
| 13C4-PFBA         | 100            | 20-150        | 1         | 07/22/2025 00:49 |
| 13C4-PFHpA        | 103            | 20-150        | 1         | 07/22/2025 00:49 |
| 13C5-PFHxA        | 106            | 20-150        | 1         | 07/22/2025 00:49 |
| 13C5-PFPeA        | 100            | 20-150        | 1         | 07/22/2025 00:49 |
| 13C6-PFDA         | 99             | 20-150        | 1         | 07/22/2025 00:49 |
| 13C7-PFUdA        | 93             | 20-150        | 1         | 07/22/2025 00:49 |
| 13C8-PFOA         | 102            | 20-150        | 1         | 07/22/2025 00:49 |
| 13C8-PFOS         | 103            | 20-150        | 1         | 07/22/2025 00:49 |
| 13C8-PFOSA        | 105            | 20-150        | 1         | 07/22/2025 00:49 |
| 13C9-PFNA         | 97             | 20-150        | 1         | 07/22/2025 00:49 |
| d3-MeFOSAA        | 91             | 20-150        | 1         | 07/22/2025 00:49 |
| d5-EtFOSAA        | 70             | 20-150        | 1         | 07/22/2025 00:49 |
| 13C2-PFHxDA       | 81             | 20-150        | 1         | 07/22/2025 00:49 |
| d3-MeFOSA         | 79             | 20-150        | 1         | 07/22/2025 00:49 |
| d5-EtFOSA         | 76             | 20-150        | 1         | 07/22/2025 00:49 |
| d7N-MeFOSE1       | 82             | 20-150        | 1         | 07/22/2025 00:49 |
| d9N-EtFOSE1       | 85             | 20-150        | 1         | 07/22/2025 00:49 |
| 13C2-10:2 FTS     | 98             | 20-150        | 1         | 07/22/2025 00:49 |

Analyst(s): PJA



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/19/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/g-dry

### Perfluorinated Compounds

| Client ID       | Lab ID        | Matrix | Date Collected      | Instrument             | Batch ID             |
|-----------------|---------------|--------|---------------------|------------------------|----------------------|
| SB-08-5         | 2507B37-016B  | Soil   | 07/16/2025 11:32    | LC-MS4 07212025 1633 3 | 321764               |
| <u>Analytes</u> | <u>Result</u> |        | <u>RL</u> <u>DE</u> |                        | <u>Date Analyzed</u> |
| 9CIPF3ONS       | ND            |        | 0.25 1              |                        | 07/22/2025 01:01     |
| 11CIPF3OUdS     | ND            |        | 0.25 1              |                        | 07/22/2025 01:01     |
| 3:3 FTCA        | ND            |        | 0.25 1              |                        | 07/22/2025 01:01     |
| 4:2 FTS         | ND            |        | 0.25 1              |                        | 07/22/2025 01:01     |
| 5:3 FTCA        | ND            |        | 0.25 1              |                        | 07/22/2025 01:01     |
| 6:2 FTS         | ND            |        | 0.25 1              |                        | 07/22/2025 01:01     |
| 7:3 FTCA        | ND            |        | 0.25 1              |                        | 07/22/2025 01:01     |
| 8:2 FTS         | ND            |        | 0.25 1              |                        | 07/22/2025 01:01     |
| 10:2 FTS        | ND            |        | 0.24 1              |                        | 07/22/2025 01:01     |
| ADONA           | ND            |        | 0.25 1              |                        | 07/22/2025 01:01     |
| EtFOSA          | ND            |        | 0.25 1              |                        | 07/22/2025 01:01     |
| EtFOSE          | ND            |        | 0.25 1              |                        | 07/22/2025 01:01     |
| HFPO-DA         | ND            |        | 0.25 1              |                        | 07/22/2025 01:01     |
| MeFOSA          | ND            |        | 0.25 1              |                        | 07/22/2025 01:01     |
| MeFOSE          | ND            |        | 0.25 1              |                        | 07/22/2025 01:01     |
| NEtFOSAA        | ND            |        | 0.25 1              |                        | 07/22/2025 01:01     |
| NFDHA           | ND            |        | 0.25 1              |                        | 07/22/2025 01:01     |
| NMeFOSAA        | ND            |        | 0.25 1              |                        | 07/22/2025 01:01     |
| PFBA            | ND            |        | 0.25 1              |                        | 07/22/2025 01:01     |
| PFBS            | ND            |        | 0.25 1              |                        | 07/22/2025 01:01     |
| PFDA            | ND            |        | 0.25 1              |                        | 07/22/2025 01:01     |
| PFDoA           | ND            |        | 0.25 1              |                        | 07/22/2025 01:01     |
| PFDoS           | ND            |        | 0.25 1              |                        | 07/22/2025 01:01     |
| PFDS            | ND            |        | 0.25 1              |                        | 07/22/2025 01:01     |
| PFEESA          | ND            |        | 0.25 1              |                        | 07/22/2025 01:01     |
| PFHpA           | ND            |        | 0.25 1              |                        | 07/22/2025 01:01     |
| PFHpS           | ND            |        | 0.25 1              |                        | 07/22/2025 01:01     |
| PFHxA           | ND            |        | 0.25 1              |                        | 07/22/2025 01:01     |
| PFHxDA          | ND            |        | 0.25 1              |                        | 07/22/2025 01:01     |
| PFHxS           | ND            |        | 0.25 1              |                        | 07/22/2025 01:01     |
| PFMBA           | ND            |        | 0.25 1              |                        | 07/22/2025 01:01     |
| PFMPA           | ND            |        | 0.25 1              |                        | 07/22/2025 01:01     |
| PFNA            | ND            |        | 0.25 1              |                        | 07/22/2025 01:01     |
| PFNS            | ND            |        | 0.25 1              |                        | 07/22/2025 01:01     |
| PFOA            | ND            |        | 0.25 1              |                        | 07/22/2025 01:01     |
| PFODA           | ND            |        | 0.25 1              |                        | 07/22/2025 01:01     |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/19/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/g-dry

### Perfluorinated Compounds

| Client ID       | Lab ID        | Matrix | Date Collected   |           | Instrument             | Batch ID |
|-----------------|---------------|--------|------------------|-----------|------------------------|----------|
| SB-08-5         | 2507B37-016B  | Soil   | 07/16/2025 11:32 |           | LC-MS4 07212025 1633 3 | 321764   |
| <u>Analytes</u> | <u>Result</u> |        | <u>RL</u>        | <u>DE</u> | <u>Date Analyzed</u>   |          |
| PFOS            | ND            |        | 0.25             | 1         | 07/22/2025 01:01       |          |
| PFOSA           | ND            |        | 0.25             | 1         | 07/22/2025 01:01       |          |
| PFPeA           | ND            |        | 0.25             | 1         | 07/22/2025 01:01       |          |
| PFPeS           | ND            |        | 0.25             | 1         | 07/22/2025 01:01       |          |
| PFTeDA          | ND            |        | 0.25             | 1         | 07/22/2025 01:01       |          |
| PFTTrDA         | ND            |        | 0.25             | 1         | 07/22/2025 01:01       |          |
| PFUnA           | ND            |        | 0.25             | 1         | 07/22/2025 01:01       |          |



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/19/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/g-dry

### Perfluorinated Compounds

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument             | Batch ID |
|-----------|--------------|--------|------------------|------------------------|----------|
| SB-08-5   | 2507B37-016B | Soil   | 07/16/2025 11:32 | LC-MS4 07212025 1633 3 | 321764   |

| Analytes      | Result  | RL     | DE | Date Analyzed    |
|---------------|---------|--------|----|------------------|
| Surrogates    | REC (%) | Limits | DE |                  |
| 13C2-4:2 FTS  | 100     | 20-150 | 1  | 07/22/2025 01:01 |
| 13C2-6:2 FTS  | 97      | 20-150 | 1  | 07/22/2025 01:01 |
| 13C2-8:2 FTS  | 119     | 20-150 | 1  | 07/22/2025 01:01 |
| 13C2-PFDoA    | 100     | 20-150 | 1  | 07/22/2025 01:01 |
| 13C2-PFTeDA   | 76      | 20-150 | 1  | 07/22/2025 01:01 |
| 13C3-HFPO-DA  | 104     | 20-150 | 1  | 07/22/2025 01:01 |
| 13C3-PFBS     | 103     | 20-150 | 1  | 07/22/2025 01:01 |
| 13C3-PFHxS    | 105     | 20-150 | 1  | 07/22/2025 01:01 |
| 13C4-PFBA     | 103     | 20-150 | 1  | 07/22/2025 01:01 |
| 13C4-PFHpA    | 109     | 20-150 | 1  | 07/22/2025 01:01 |
| 13C5-PFHxA    | 107     | 20-150 | 1  | 07/22/2025 01:01 |
| 13C5-PFPeA    | 108     | 20-150 | 1  | 07/22/2025 01:01 |
| 13C6-PFDA     | 107     | 20-150 | 1  | 07/22/2025 01:01 |
| 13C7-PFUdA    | 98      | 20-150 | 1  | 07/22/2025 01:01 |
| 13C8-PFOA     | 105     | 20-150 | 1  | 07/22/2025 01:01 |
| 13C8-PFOS     | 111     | 20-150 | 1  | 07/22/2025 01:01 |
| 13C8-PFOSA    | 109     | 20-150 | 1  | 07/22/2025 01:01 |
| 13C9-PFNA     | 106     | 20-150 | 1  | 07/22/2025 01:01 |
| d3-MeFOSAA    | 95      | 20-150 | 1  | 07/22/2025 01:01 |
| d5-EtFOSAA    | 73      | 20-150 | 1  | 07/22/2025 01:01 |
| 13C2-PFHxDA   | 77      | 20-150 | 1  | 07/22/2025 01:01 |
| d3-MeFOSA     | 82      | 20-150 | 1  | 07/22/2025 01:01 |
| d5-EtFOSA     | 79      | 20-150 | 1  | 07/22/2025 01:01 |
| d7N-MeFOSE1   | 90      | 20-150 | 1  | 07/22/2025 01:01 |
| d9N-EtFOSE1   | 89      | 20-150 | 1  | 07/22/2025 01:01 |
| 13C2-10:2 FTS | 106     | 20-150 | 1  | 07/22/2025 01:01 |

Analyst(s): PJA



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/19/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/g-dry

### Perfluorinated Compounds

| Client ID       | Lab ID        | Matrix | Date Collected      | Instrument             | Batch ID             |
|-----------------|---------------|--------|---------------------|------------------------|----------------------|
| SB-09-5         | 2507B37-018B  | Soil   | 07/16/2025 11:53    | LC-MS4 07212025 1633 3 | 321764               |
| <u>Analytes</u> | <u>Result</u> |        | <u>RL</u> <u>DE</u> |                        | <u>Date Analyzed</u> |
| 9CIPF3ONS       | ND            |        | 0.26 1              |                        | 07/22/2025 01:13     |
| 11CIPF3OUdS     | ND            |        | 0.26 1              |                        | 07/22/2025 01:13     |
| 3:3 FTCA        | ND            |        | 0.26 1              |                        | 07/22/2025 01:13     |
| 4:2 FTS         | ND            |        | 0.26 1              |                        | 07/22/2025 01:13     |
| 5:3 FTCA        | ND            |        | 0.26 1              |                        | 07/22/2025 01:13     |
| 6:2 FTS         | ND            |        | 0.26 1              |                        | 07/22/2025 01:13     |
| 7:3 FTCA        | ND            |        | 0.26 1              |                        | 07/22/2025 01:13     |
| 8:2 FTS         | ND            |        | 0.26 1              |                        | 07/22/2025 01:13     |
| 10:2 FTS        | ND            |        | 0.25 1              |                        | 07/22/2025 01:13     |
| ADONA           | ND            |        | 0.26 1              |                        | 07/22/2025 01:13     |
| EtFOSA          | ND            |        | 0.26 1              |                        | 07/22/2025 01:13     |
| EtFOSE          | ND            |        | 0.26 1              |                        | 07/22/2025 01:13     |
| HFPO-DA         | ND            |        | 0.26 1              |                        | 07/22/2025 01:13     |
| MeFOSA          | ND            |        | 0.26 1              |                        | 07/22/2025 01:13     |
| MeFOSE          | ND            |        | 0.26 1              |                        | 07/22/2025 01:13     |
| NEtFOSAA        | ND            |        | 0.26 1              |                        | 07/22/2025 01:13     |
| NFDHA           | ND            |        | 0.26 1              |                        | 07/22/2025 01:13     |
| NMeFOSAA        | ND            |        | 0.26 1              |                        | 07/22/2025 01:13     |
| PFBA            | ND            |        | 0.26 1              |                        | 07/22/2025 01:13     |
| PFBS            | ND            |        | 0.26 1              |                        | 07/22/2025 01:13     |
| PFDA            | ND            |        | 0.26 1              |                        | 07/22/2025 01:13     |
| PFDoA           | ND            |        | 0.26 1              |                        | 07/22/2025 01:13     |
| PFDoS           | ND            |        | 0.26 1              |                        | 07/22/2025 01:13     |
| PFDS            | ND            |        | 0.26 1              |                        | 07/22/2025 01:13     |
| PFEESA          | ND            |        | 0.26 1              |                        | 07/22/2025 01:13     |
| PFHpA           | ND            |        | 0.26 1              |                        | 07/22/2025 01:13     |
| PFHpS           | ND            |        | 0.26 1              |                        | 07/22/2025 01:13     |
| PFHxA           | ND            |        | 0.26 1              |                        | 07/22/2025 01:13     |
| PFHxDA          | ND            |        | 0.26 1              |                        | 07/22/2025 01:13     |
| PFHxS           | ND            |        | 0.26 1              |                        | 07/22/2025 01:13     |
| PFMBA           | ND            |        | 0.26 1              |                        | 07/22/2025 01:13     |
| PFMPA           | ND            |        | 0.26 1              |                        | 07/22/2025 01:13     |
| PFNA            | ND            |        | 0.26 1              |                        | 07/22/2025 01:13     |
| PFNS            | ND            |        | 0.26 1              |                        | 07/22/2025 01:13     |
| PFOA            | ND            |        | 0.26 1              |                        | 07/22/2025 01:13     |
| PFODA           | ND            |        | 0.26 1              |                        | 07/22/2025 01:13     |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/19/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/g-dry

### Perfluorinated Compounds

| Client ID       | Lab ID        | Matrix | Date Collected   |           | Instrument             | Batch ID |
|-----------------|---------------|--------|------------------|-----------|------------------------|----------|
| SB-09-5         | 2507B37-018B  | Soil   | 07/16/2025 11:53 |           | LC-MS4 07212025 1633 3 | 321764   |
| <u>Analytes</u> | <u>Result</u> |        | <u>RL</u>        | <u>DE</u> | <u>Date Analyzed</u>   |          |
| PFOS            | ND            |        | 0.26             | 1         | 07/22/2025 01:13       |          |
| PFOSA           | ND            |        | 0.26             | 1         | 07/22/2025 01:13       |          |
| PFPeA           | ND            |        | 0.26             | 1         | 07/22/2025 01:13       |          |
| PFPeS           | ND            |        | 0.26             | 1         | 07/22/2025 01:13       |          |
| PFTeDA          | ND            |        | 0.26             | 1         | 07/22/2025 01:13       |          |
| PFTrDA          | ND            |        | 0.26             | 1         | 07/22/2025 01:13       |          |
| PFUnA           | ND            |        | 0.26             | 1         | 07/22/2025 01:13       |          |



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/19/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/g-dry

### Perfluorinated Compounds

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument             | Batch ID |
|-----------|--------------|--------|------------------|------------------------|----------|
| SB-09-5   | 2507B37-018B | Soil   | 07/16/2025 11:53 | LC-MS4 07212025 1633 3 | 321764   |

| Analytes          | Result         | RL            | DE        | Date Analyzed    |
|-------------------|----------------|---------------|-----------|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | <u>Limits</u> | <u>DE</u> |                  |
| 13C2-4:2 FTS      | 88             | 20-150        | 1         | 07/22/2025 01:13 |
| 13C2-6:2 FTS      | 93             | 20-150        | 1         | 07/22/2025 01:13 |
| 13C2-8:2 FTS      | 107            | 20-150        | 1         | 07/22/2025 01:13 |
| 13C2-PFDoA        | 84             | 20-150        | 1         | 07/22/2025 01:13 |
| 13C2-PFTeDA       | 63             | 20-150        | 1         | 07/22/2025 01:13 |
| 13C3-HFPO-DA      | 92             | 20-150        | 1         | 07/22/2025 01:13 |
| 13C3-PFBS         | 97             | 20-150        | 1         | 07/22/2025 01:13 |
| 13C3-PFHxS        | 98             | 20-150        | 1         | 07/22/2025 01:13 |
| 13C4-PFBA         | 96             | 20-150        | 1         | 07/22/2025 01:13 |
| 13C4-PFHpA        | 95             | 20-150        | 1         | 07/22/2025 01:13 |
| 13C5-PFHxA        | 98             | 20-150        | 1         | 07/22/2025 01:13 |
| 13C5-PFPeA        | 93             | 20-150        | 1         | 07/22/2025 01:13 |
| 13C6-PFDA         | 97             | 20-150        | 1         | 07/22/2025 01:13 |
| 13C7-PFUdA        | 88             | 20-150        | 1         | 07/22/2025 01:13 |
| 13C8-PFOA         | 100            | 20-150        | 1         | 07/22/2025 01:13 |
| 13C8-PFOS         | 100            | 20-150        | 1         | 07/22/2025 01:13 |
| 13C8-PFOSA        | 106            | 20-150        | 1         | 07/22/2025 01:13 |
| 13C9-PFNA         | 95             | 20-150        | 1         | 07/22/2025 01:13 |
| d3-MeFOSAA        | 95             | 20-150        | 1         | 07/22/2025 01:13 |
| d5-EtFOSAA        | 70             | 20-150        | 1         | 07/22/2025 01:13 |
| 13C2-PFHxDA       | 69             | 20-150        | 1         | 07/22/2025 01:13 |
| d3-MeFOSA         | 80             | 20-150        | 1         | 07/22/2025 01:13 |
| d5-EtFOSA         | 76             | 20-150        | 1         | 07/22/2025 01:13 |
| d7N-MeFOSE1       | 79             | 20-150        | 1         | 07/22/2025 01:13 |
| d9N-EtFOSE1       | 79             | 20-150        | 1         | 07/22/2025 01:13 |
| 13C2-10:2 FTS     | 97             | 20-150        | 1         | 07/22/2025 01:13 |

Analyst(s): PJA



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/19/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/g-dry

### Perfluorinated Compounds

| Client ID       | Lab ID        | Matrix | Date Collected   |           | Instrument             | Batch ID |
|-----------------|---------------|--------|------------------|-----------|------------------------|----------|
| SB-04-8.5       | 2507B37-019B  | Soil   | 07/16/2025 10:46 |           | LC-MS4 07212025 1633 3 | 321764   |
| <u>Analytes</u> | <u>Result</u> |        | <u>RL</u>        | <u>DE</u> | <u>Date Analyzed</u>   |          |
| 9CIPF3ONS       | ND            |        | 0.23             | 1         | 07/22/2025 01:25       |          |
| 11CIPF3OUDS     | ND            |        | 0.23             | 1         | 07/22/2025 01:25       |          |
| 3:3 FTCA        | ND            |        | 0.23             | 1         | 07/22/2025 01:25       |          |
| 4:2 FTS         | ND            |        | 0.23             | 1         | 07/22/2025 01:25       |          |
| 5:3 FTCA        | ND            |        | 0.23             | 1         | 07/22/2025 01:25       |          |
| 6:2 FTS         | ND            |        | 0.23             | 1         | 07/22/2025 01:25       |          |
| 7:3 FTCA        | ND            |        | 0.23             | 1         | 07/22/2025 01:25       |          |
| 8:2 FTS         | ND            |        | 0.23             | 1         | 07/22/2025 01:25       |          |
| 10:2 FTS        | ND            |        | 0.22             | 1         | 07/22/2025 01:25       |          |
| ADONA           | ND            |        | 0.23             | 1         | 07/22/2025 01:25       |          |
| EtFOSA          | ND            |        | 0.23             | 1         | 07/22/2025 01:25       |          |
| EtFOSE          | ND            |        | 0.23             | 1         | 07/22/2025 01:25       |          |
| HFPO-DA         | ND            |        | 0.23             | 1         | 07/22/2025 01:25       |          |
| MeFOSA          | ND            |        | 0.23             | 1         | 07/22/2025 01:25       |          |
| MeFOSE          | ND            |        | 0.23             | 1         | 07/22/2025 01:25       |          |
| NEtFOSAA        | ND            |        | 0.23             | 1         | 07/22/2025 01:25       |          |
| NFDHA           | ND            |        | 0.23             | 1         | 07/22/2025 01:25       |          |
| NMeFOSAA        | ND            |        | 0.23             | 1         | 07/22/2025 01:25       |          |
| PFBA            | ND            |        | 0.23             | 1         | 07/22/2025 01:25       |          |
| PFBS            | ND            |        | 0.23             | 1         | 07/22/2025 01:25       |          |
| PFDA            | ND            |        | 0.23             | 1         | 07/22/2025 01:25       |          |
| PFDaA           | ND            |        | 0.23             | 1         | 07/22/2025 01:25       |          |
| PFDoS           | ND            |        | 0.23             | 1         | 07/22/2025 01:25       |          |
| PFDS            | ND            |        | 0.23             | 1         | 07/22/2025 01:25       |          |
| PFEESA          | ND            |        | 0.23             | 1         | 07/22/2025 01:25       |          |
| PFHpA           | ND            |        | 0.23             | 1         | 07/22/2025 01:25       |          |
| PFHpS           | ND            |        | 0.23             | 1         | 07/22/2025 01:25       |          |
| PFHxA           | ND            |        | 0.23             | 1         | 07/22/2025 01:25       |          |
| PFHxDA          | ND            |        | 0.23             | 1         | 07/22/2025 01:25       |          |
| PFHxS           | ND            |        | 0.23             | 1         | 07/22/2025 01:25       |          |
| PFMBA           | ND            |        | 0.23             | 1         | 07/22/2025 01:25       |          |
| PFMPA           | ND            |        | 0.23             | 1         | 07/22/2025 01:25       |          |
| PFNA            | ND            |        | 0.23             | 1         | 07/22/2025 01:25       |          |
| PFNS            | ND            |        | 0.23             | 1         | 07/22/2025 01:25       |          |
| PFOA            | ND            |        | 0.23             | 1         | 07/22/2025 01:25       |          |
| PFODA           | ND            |        | 0.23             | 1         | 07/22/2025 01:25       |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/19/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/g-dry

### Perfluorinated Compounds

| Client ID       | Lab ID        | Matrix | Date Collected   | Instrument             | Batch ID             |
|-----------------|---------------|--------|------------------|------------------------|----------------------|
| SB-04-8.5       | 2507B37-019B  | Soil   | 07/16/2025 10:46 | LC-MS4 07212025 1633 3 | 321764               |
| <u>Analytes</u> | <u>Result</u> |        | <u>RL</u>        | <u>DE</u>              | <u>Date Analyzed</u> |
| PFOS            | 0.44          |        | 0.23             | 1                      | 07/22/2025 01:25     |
| PFOSA           | ND            |        | 0.23             | 1                      | 07/22/2025 01:25     |
| PFPeA           | ND            |        | 0.23             | 1                      | 07/22/2025 01:25     |
| PFPeS           | ND            |        | 0.23             | 1                      | 07/22/2025 01:25     |
| PFTeDA          | ND            |        | 0.23             | 1                      | 07/22/2025 01:25     |
| PFTeDA          | ND            |        | 0.23             | 1                      | 07/22/2025 01:25     |
| PFTeDA          | ND            |        | 0.23             | 1                      | 07/22/2025 01:25     |
| PFTeDA          | ND            |        | 0.23             | 1                      | 07/22/2025 01:25     |



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/19/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/g-dry

### Perfluorinated Compounds

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument             | Batch ID |
|-----------|--------------|--------|------------------|------------------------|----------|
| SB-04-8.5 | 2507B37-019B | Soil   | 07/16/2025 10:46 | LC-MS4 07212025 1633 3 | 321764   |

| Analytes          | Result         | RL            | DE        | Date Analyzed    |
|-------------------|----------------|---------------|-----------|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | <u>Limits</u> | <u>DE</u> |                  |
| 13C2-4:2 FTS      | 83             | 20-150        | 1         | 07/22/2025 01:25 |
| 13C2-6:2 FTS      | 84             | 20-150        | 1         | 07/22/2025 01:25 |
| 13C2-8:2 FTS      | 90             | 20-150        | 1         | 07/22/2025 01:25 |
| 13C2-PFDoA        | 80             | 20-150        | 1         | 07/22/2025 01:25 |
| 13C2-PFTeDA       | 62             | 20-150        | 1         | 07/22/2025 01:25 |
| 13C3-HFPO-DA      | 86             | 20-150        | 1         | 07/22/2025 01:25 |
| 13C3-PFBS         | 85             | 20-150        | 1         | 07/22/2025 01:25 |
| 13C3-PFHxS        | 84             | 20-150        | 1         | 07/22/2025 01:25 |
| 13C4-PFBA         | 83             | 20-150        | 1         | 07/22/2025 01:25 |
| 13C4-PFHpA        | 88             | 20-150        | 1         | 07/22/2025 01:25 |
| 13C5-PFHxA        | 86             | 20-150        | 1         | 07/22/2025 01:25 |
| 13C5-PFPeA        | 85             | 20-150        | 1         | 07/22/2025 01:25 |
| 13C6-PFDA         | 82             | 20-150        | 1         | 07/22/2025 01:25 |
| 13C7-PFUdA        | 75             | 20-150        | 1         | 07/22/2025 01:25 |
| 13C8-PFOA         | 82             | 20-150        | 1         | 07/22/2025 01:25 |
| 13C8-PFOS         | 85             | 20-150        | 1         | 07/22/2025 01:25 |
| 13C8-PFOSA        | 88             | 20-150        | 1         | 07/22/2025 01:25 |
| 13C9-PFNA         | 80             | 20-150        | 1         | 07/22/2025 01:25 |
| d3-MeFOSAA        | 77             | 20-150        | 1         | 07/22/2025 01:25 |
| d5-EtFOSAA        | 60             | 20-150        | 1         | 07/22/2025 01:25 |
| 13C2-PFHxDA       | 66             | 20-150        | 1         | 07/22/2025 01:25 |
| d3-MeFOSA         | 71             | 20-150        | 1         | 07/22/2025 01:25 |
| d5-EtFOSA         | 68             | 20-150        | 1         | 07/22/2025 01:25 |
| d7N-MeFOSE1       | 73             | 20-150        | 1         | 07/22/2025 01:25 |
| d9N-EtFOSE1       | 75             | 20-150        | 1         | 07/22/2025 01:25 |
| 13C2-10:2 FTS     | 88             | 20-150        | 1         | 07/22/2025 01:25 |

Analyst(s): PJA





## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/19/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/g-dry

### Perfluorinated Compounds

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument             | Batch ID |
|-----------|--------------|--------|------------------|------------------------|----------|
| SB-04-10  | 2507B37-020B | Soil   | 07/16/2025 09:12 | LC-MS4 07212025 1633 3 | 321764   |

| Analytes    | Result | RL   | DE | Date Analyzed    |
|-------------|--------|------|----|------------------|
| 9CIPF3ONS   | ND     | 0.25 | 1  | 07/22/2025 02:24 |
| 11CIPF3OUdS | ND     | 0.25 | 1  | 07/22/2025 02:24 |
| 3:3 FTCA    | ND     | 0.25 | 1  | 07/22/2025 02:24 |
| 4:2 FTS     | ND     | 0.25 | 1  | 07/22/2025 02:24 |
| 5:3 FTCA    | ND     | 0.25 | 1  | 07/22/2025 02:24 |
| 6:2 FTS     | ND     | 0.25 | 1  | 07/22/2025 02:24 |
| 7:3 FTCA    | ND     | 0.25 | 1  | 07/22/2025 02:24 |
| 8:2 FTS     | ND     | 0.25 | 1  | 07/22/2025 02:24 |
| 10:2 FTS    | ND     | 0.23 | 1  | 07/22/2025 02:24 |
| ADONA       | ND     | 0.25 | 1  | 07/22/2025 02:24 |
| EtFOSA      | ND     | 0.25 | 1  | 07/22/2025 02:24 |
| EtFOSE      | ND     | 0.25 | 1  | 07/22/2025 02:24 |
| HFPO-DA     | ND     | 0.25 | 1  | 07/22/2025 02:24 |
| MeFOSA      | ND     | 0.25 | 1  | 07/22/2025 02:24 |
| MeFOSE      | ND     | 0.25 | 1  | 07/22/2025 02:24 |
| NEtFOSAA    | ND     | 0.25 | 1  | 07/22/2025 02:24 |
| NFDHA       | ND     | 0.25 | 1  | 07/22/2025 02:24 |
| NMeFOSAA    | ND     | 0.25 | 1  | 07/22/2025 02:24 |
| PFBA        | ND     | 0.25 | 1  | 07/22/2025 02:24 |
| PFBS        | ND     | 0.25 | 1  | 07/22/2025 02:24 |
| PFDA        | ND     | 0.25 | 1  | 07/22/2025 02:24 |
| PFDaA       | ND     | 0.25 | 1  | 07/22/2025 02:24 |
| PFDoS       | ND     | 0.25 | 1  | 07/22/2025 02:24 |
| PFDS        | ND     | 0.25 | 1  | 07/22/2025 02:24 |
| PFEESA      | ND     | 0.25 | 1  | 07/22/2025 02:24 |
| PFHpA       | ND     | 0.25 | 1  | 07/22/2025 02:24 |
| PFHpS       | ND     | 0.25 | 1  | 07/22/2025 02:24 |
| PFHxA       | ND     | 0.25 | 1  | 07/22/2025 02:24 |
| PFHxDA      | ND     | 0.25 | 1  | 07/22/2025 02:24 |
| PFHxS       | ND     | 0.25 | 1  | 07/22/2025 02:24 |
| PFMBA       | ND     | 0.25 | 1  | 07/22/2025 02:24 |
| PFMPA       | ND     | 0.25 | 1  | 07/22/2025 02:24 |
| PFNA        | ND     | 0.25 | 1  | 07/22/2025 02:24 |
| PFNS        | ND     | 0.25 | 1  | 07/22/2025 02:24 |
| PFOA        | ND     | 0.25 | 1  | 07/22/2025 02:24 |
| PFODA       | ND     | 0.25 | 1  | 07/22/2025 02:24 |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/19/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/g-dry

### Perfluorinated Compounds

| Client ID       | Lab ID        | Matrix | Date Collected   | Instrument             | Batch ID             |
|-----------------|---------------|--------|------------------|------------------------|----------------------|
| SB-04-10        | 2507B37-020B  | Soil   | 07/16/2025 09:12 | LC-MS4 07212025 1633 3 | 321764               |
| <u>Analytes</u> | <u>Result</u> |        | <u>RL</u>        | <u>DE</u>              | <u>Date Analyzed</u> |
| PFOS            | ND            |        | 0.25             | 1                      | 07/22/2025 02:24     |
| PFOSA           | ND            |        | 0.25             | 1                      | 07/22/2025 02:24     |
| PFPeA           | ND            |        | 0.25             | 1                      | 07/22/2025 02:24     |
| PFPeS           | ND            |        | 0.25             | 1                      | 07/22/2025 02:24     |
| PFTeDA          | ND            |        | 0.25             | 1                      | 07/22/2025 02:24     |
| PFTrDA          | ND            |        | 0.25             | 1                      | 07/22/2025 02:24     |
| PFUnA           | ND            |        | 0.25             | 1                      | 07/22/2025 02:24     |



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/19/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/g-dry

### Perfluorinated Compounds

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument             | Batch ID |
|-----------|--------------|--------|------------------|------------------------|----------|
| SB-04-10  | 2507B37-020B | Soil   | 07/16/2025 09:12 | LC-MS4 07212025 1633 3 | 321764   |

| Analytes          | Result         | RL            | DE        | Date Analyzed    |
|-------------------|----------------|---------------|-----------|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | <u>Limits</u> | <u>DE</u> |                  |
| 13C2-4:2 FTS      | 81             | 20-150        | 1         | 07/22/2025 02:24 |
| 13C2-6:2 FTS      | 76             | 20-150        | 1         | 07/22/2025 02:24 |
| 13C2-8:2 FTS      | 81             | 20-150        | 1         | 07/22/2025 02:24 |
| 13C2-PFDoA        | 67             | 20-150        | 1         | 07/22/2025 02:24 |
| 13C2-PFTeDA       | 49             | 20-150        | 1         | 07/22/2025 02:24 |
| 13C3-HFPO-DA      | 70             | 20-150        | 1         | 07/22/2025 02:24 |
| 13C3-PFBS         | 72             | 20-150        | 1         | 07/22/2025 02:24 |
| 13C3-PFHxS        | 77             | 20-150        | 1         | 07/22/2025 02:24 |
| 13C4-PFBA         | 77             | 20-150        | 1         | 07/22/2025 02:24 |
| 13C4-PFHpA        | 75             | 20-150        | 1         | 07/22/2025 02:24 |
| 13C5-PFHxA        | 81             | 20-150        | 1         | 07/22/2025 02:24 |
| 13C5-PFPeA        | 73             | 20-150        | 1         | 07/22/2025 02:24 |
| 13C6-PFDA         | 75             | 20-150        | 1         | 07/22/2025 02:24 |
| 13C7-PFUdA        | 69             | 20-150        | 1         | 07/22/2025 02:24 |
| 13C8-PFOA         | 74             | 20-150        | 1         | 07/22/2025 02:24 |
| 13C8-PFOS         | 78             | 20-150        | 1         | 07/22/2025 02:24 |
| 13C8-PFOSA        | 78             | 20-150        | 1         | 07/22/2025 02:24 |
| 13C9-PFNA         | 75             | 20-150        | 1         | 07/22/2025 02:24 |
| d3-MeFOSAA        | 70             | 20-150        | 1         | 07/22/2025 02:24 |
| d5-EtFOSAA        | 53             | 20-150        | 1         | 07/22/2025 02:24 |
| 13C2-PFHxDA       | 59             | 20-150        | 1         | 07/22/2025 02:24 |
| d3-MeFOSA         | 52             | 20-150        | 1         | 07/22/2025 02:24 |
| d5-EtFOSA         | 50             | 20-150        | 1         | 07/22/2025 02:24 |
| d7N-MeFOSE1       | 57             | 20-150        | 1         | 07/22/2025 02:24 |
| d9N-EtFOSE1       | 59             | 20-150        | 1         | 07/22/2025 02:24 |
| 13C2-10:2 FTS     | 71             | 20-150        | 1         | 07/22/2025 02:24 |

Analyst(s): PJA

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/19/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/g-dry

### Perfluorinated Compounds

| Client ID       | Lab ID        | Matrix | Date Collected   |           | Instrument             | Batch ID |
|-----------------|---------------|--------|------------------|-----------|------------------------|----------|
| SB-08-3         | 2507B37-021B  | Soil   | 07/16/2025 11:38 |           | LC-MS4 07212025 1633 3 | 321764   |
| <u>Analytes</u> | <u>Result</u> |        | <u>RL</u>        | <u>DE</u> | <u>Date Analyzed</u>   |          |
| 9CIPF3ONS       | ND            |        | 0.24             | 1         | 07/22/2025 02:36       |          |
| 11CIPF3OUdS     | ND            |        | 0.24             | 1         | 07/22/2025 02:36       |          |
| 3:3 FTCA        | ND            |        | 0.24             | 1         | 07/22/2025 02:36       |          |
| 4:2 FTS         | ND            |        | 0.24             | 1         | 07/22/2025 02:36       |          |
| 5:3 FTCA        | ND            |        | 0.24             | 1         | 07/22/2025 02:36       |          |
| 6:2 FTS         | ND            |        | 0.24             | 1         | 07/22/2025 02:36       |          |
| 7:3 FTCA        | ND            |        | 0.24             | 1         | 07/22/2025 02:36       |          |
| 8:2 FTS         | ND            |        | 0.24             | 1         | 07/22/2025 02:36       |          |
| 10:2 FTS        | ND            |        | 0.23             | 1         | 07/22/2025 02:36       |          |
| ADONA           | ND            |        | 0.24             | 1         | 07/22/2025 02:36       |          |
| EtFOSA          | ND            |        | 0.24             | 1         | 07/22/2025 02:36       |          |
| EtFOSE          | ND            |        | 0.24             | 1         | 07/22/2025 02:36       |          |
| HFPO-DA         | ND            |        | 0.24             | 1         | 07/22/2025 02:36       |          |
| MeFOSA          | ND            |        | 0.24             | 1         | 07/22/2025 02:36       |          |
| MeFOSE          | ND            |        | 0.24             | 1         | 07/22/2025 02:36       |          |
| NEtFOSAA        | ND            |        | 0.24             | 1         | 07/22/2025 02:36       |          |
| NFDHA           | ND            |        | 0.24             | 1         | 07/22/2025 02:36       |          |
| NMeFOSAA        | ND            |        | 0.24             | 1         | 07/22/2025 02:36       |          |
| PFBA            | ND            |        | 0.24             | 1         | 07/22/2025 02:36       |          |
| PFBS            | ND            |        | 0.24             | 1         | 07/22/2025 02:36       |          |
| PFDA            | ND            |        | 0.24             | 1         | 07/22/2025 02:36       |          |
| PFDaA           | ND            |        | 0.24             | 1         | 07/22/2025 02:36       |          |
| PFDoS           | ND            |        | 0.24             | 1         | 07/22/2025 02:36       |          |
| PFDS            | ND            |        | 0.24             | 1         | 07/22/2025 02:36       |          |
| PFEESA          | ND            |        | 0.24             | 1         | 07/22/2025 02:36       |          |
| PFHpA           | ND            |        | 0.24             | 1         | 07/22/2025 02:36       |          |
| PFHpS           | ND            |        | 0.24             | 1         | 07/22/2025 02:36       |          |
| PFHxA           | ND            |        | 0.24             | 1         | 07/22/2025 02:36       |          |
| PFHxDA          | ND            |        | 0.24             | 1         | 07/22/2025 02:36       |          |
| PFHxS           | ND            |        | 0.24             | 1         | 07/22/2025 02:36       |          |
| PFMBA           | ND            |        | 0.24             | 1         | 07/22/2025 02:36       |          |
| PFMPA           | ND            |        | 0.24             | 1         | 07/22/2025 02:36       |          |
| PFNA            | ND            |        | 0.24             | 1         | 07/22/2025 02:36       |          |
| PFNS            | ND            |        | 0.24             | 1         | 07/22/2025 02:36       |          |
| PFOA            | ND            |        | 0.24             | 1         | 07/22/2025 02:36       |          |
| PFODA           | ND            |        | 0.24             | 1         | 07/22/2025 02:36       |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/19/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/g-dry

### Perfluorinated Compounds

| Client ID       | Lab ID        | Matrix | Date Collected   |           | Instrument             | Batch ID |
|-----------------|---------------|--------|------------------|-----------|------------------------|----------|
| SB-08-3         | 2507B37-021B  | Soil   | 07/16/2025 11:38 |           | LC-MS4 07212025 1633 3 | 321764   |
| <u>Analytes</u> | <u>Result</u> |        | <u>RL</u>        | <u>DE</u> | <u>Date Analyzed</u>   |          |
| PFOS            | ND            |        | 0.24             | 1         | 07/22/2025 02:36       |          |
| PFOSA           | ND            |        | 0.24             | 1         | 07/22/2025 02:36       |          |
| PFPeA           | ND            |        | 0.24             | 1         | 07/22/2025 02:36       |          |
| PFPeS           | ND            |        | 0.24             | 1         | 07/22/2025 02:36       |          |
| PFTeDA          | ND            |        | 0.24             | 1         | 07/22/2025 02:36       |          |
| PFTeDA          | ND            |        | 0.24             | 1         | 07/22/2025 02:36       |          |
| PFTeDA          | ND            |        | 0.24             | 1         | 07/22/2025 02:36       |          |
| PFTeDA          | ND            |        | 0.24             | 1         | 07/22/2025 02:36       |          |



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/19/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/g-dry

### Perfluorinated Compounds

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument             | Batch ID |
|-----------|--------------|--------|------------------|------------------------|----------|
| SB-08-3   | 2507B37-021B | Soil   | 07/16/2025 11:38 | LC-MS4 07212025 1633 3 | 321764   |

| Analytes      | Result  | RL     | DE | Date Analyzed    |
|---------------|---------|--------|----|------------------|
| Surrogates    | REC (%) | Limits | DE |                  |
| 13C2-4:2 FTS  | 98      | 20-150 | 1  | 07/22/2025 02:36 |
| 13C2-6:2 FTS  | 97      | 20-150 | 1  | 07/22/2025 02:36 |
| 13C2-8:2 FTS  | 102     | 20-150 | 1  | 07/22/2025 02:36 |
| 13C2-PFDoA    | 87      | 20-150 | 1  | 07/22/2025 02:36 |
| 13C2-PFTeDA   | 70      | 20-150 | 1  | 07/22/2025 02:36 |
| 13C3-HFPO-DA  | 101     | 20-150 | 1  | 07/22/2025 02:36 |
| 13C3-PFBS     | 98      | 20-150 | 1  | 07/22/2025 02:36 |
| 13C3-PFHxS    | 98      | 20-150 | 1  | 07/22/2025 02:36 |
| 13C4-PFBA     | 97      | 20-150 | 1  | 07/22/2025 02:36 |
| 13C4-PFHpA    | 99      | 20-150 | 1  | 07/22/2025 02:36 |
| 13C5-PFHxA    | 100     | 20-150 | 1  | 07/22/2025 02:36 |
| 13C5-PFPeA    | 96      | 20-150 | 1  | 07/22/2025 02:36 |
| 13C6-PFDA     | 100     | 20-150 | 1  | 07/22/2025 02:36 |
| 13C7-PFUdA    | 93      | 20-150 | 1  | 07/22/2025 02:36 |
| 13C8-PFOA     | 98      | 20-150 | 1  | 07/22/2025 02:36 |
| 13C8-PFOS     | 102     | 20-150 | 1  | 07/22/2025 02:36 |
| 13C8-PFOSA    | 101     | 20-150 | 1  | 07/22/2025 02:36 |
| 13C9-PFNA     | 98      | 20-150 | 1  | 07/22/2025 02:36 |
| d3-MeFOSAA    | 83      | 20-150 | 1  | 07/22/2025 02:36 |
| d5-EtFOSAA    | 63      | 20-150 | 1  | 07/22/2025 02:36 |
| 13C2-PFHxDA   | 82      | 20-150 | 1  | 07/22/2025 02:36 |
| d3-MeFOSA     | 80      | 20-150 | 1  | 07/22/2025 02:36 |
| d5-EtFOSA     | 78      | 20-150 | 1  | 07/22/2025 02:36 |
| d7N-MeFOSE1   | 77      | 20-150 | 1  | 07/22/2025 02:36 |
| d9N-EtFOSE1   | 80      | 20-150 | 1  | 07/22/2025 02:36 |
| 13C2-10:2 FTS | 87      | 20-150 | 1  | 07/22/2025 02:36 |

Analyst(s): PJA



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/23/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640Am/3630Cm  
**Analytical Method:** SW8081 B  
**Unit:** mg/kg

### Organochlorine Pesticides LL ESLs

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-01-1   | 2507B37-001A | Soil   | 07/15/2025 12:11 | GC23 07282513.d | 322009   |

| Analytes                  | Result | RL     | DE | Date Analyzed    |
|---------------------------|--------|--------|----|------------------|
| Aldrin                    | ND     | 0.0020 | 20 | 07/28/2025 11:11 |
| a-BHC                     | ND     | 0.0020 | 20 | 07/28/2025 11:11 |
| b-BHC                     | ND     | 0.0020 | 20 | 07/28/2025 11:11 |
| d-BHC                     | ND     | 0.0020 | 20 | 07/28/2025 11:11 |
| g-BHC                     | ND     | 0.0020 | 20 | 07/28/2025 11:11 |
| Chlordane (Technical)     | ND     | 0.050  | 20 | 07/28/2025 11:11 |
| a-Chlordane               | ND     | 0.0020 | 20 | 07/28/2025 11:11 |
| g-Chlordane               | 0.028  | 0.0020 | 20 | 07/28/2025 11:11 |
| p,p-DDD                   | 0.24   | 0.0020 | 20 | 07/28/2025 11:11 |
| p,p-DDT                   | 0.14   | 0.0020 | 20 | 07/28/2025 11:11 |
| Dieldrin                  | 0.13   | 0.0020 | 20 | 07/28/2025 11:11 |
| Endosulfan I              | ND     | 0.0020 | 20 | 07/28/2025 11:11 |
| Endosulfan II             | ND     | 0.0020 | 20 | 07/28/2025 11:11 |
| Endosulfan sulfate        | ND     | 0.0020 | 20 | 07/28/2025 11:11 |
| Endrin                    | ND     | 0.0020 | 20 | 07/28/2025 11:11 |
| Endrin aldehyde           | ND     | 0.0020 | 20 | 07/28/2025 11:11 |
| Endrin ketone             | ND     | 0.0020 | 20 | 07/28/2025 11:11 |
| Heptachlor                | ND     | 0.0020 | 20 | 07/28/2025 11:11 |
| Heptachlor epoxide        | ND     | 0.0020 | 20 | 07/28/2025 11:11 |
| Hexachlorobenzene         | ND     | 0.020  | 20 | 07/28/2025 11:11 |
| Hexachlorocyclopentadiene | ND     | 0.040  | 20 | 07/28/2025 11:11 |
| Methoxychlor              | 0.012  | 0.0040 | 20 | 07/28/2025 11:11 |
| Toxaphene                 | ND     | 0.20   | 20 | 07/28/2025 11:11 |

| Surrogates         | REC (%) | Limits | DE | Date Analyzed    |
|--------------------|---------|--------|----|------------------|
| Decachlorobiphenyl | 120     | 20-145 | 20 | 07/28/2025 11:11 |

Analyst(s): CN

Analytical Comments: a2,h7,h8

(Cont.)



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/23/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640Am/3630Cm  
**Analytical Method:** SW8081 B  
**Unit:** mg/kg

### Organochlorine Pesticides LL ESLs

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-02-1   | 2507B37-003A | Soil   | 07/15/2025 09:29 | GC23 07282514.d | 322009   |

| Analytes                  | Result | RL      | DE | Date Analyzed    |
|---------------------------|--------|---------|----|------------------|
| Aldrin                    | ND     | 0.00050 | 5  | 07/28/2025 11:26 |
| a-BHC                     | ND     | 0.00050 | 5  | 07/28/2025 11:26 |
| b-BHC                     | ND     | 0.00050 | 5  | 07/28/2025 11:26 |
| d-BHC                     | ND     | 0.00050 | 5  | 07/28/2025 11:26 |
| g-BHC                     | ND     | 0.00050 | 5  | 07/28/2025 11:26 |
| Chlordane (Technical)     | ND     | 0.012   | 5  | 07/28/2025 11:26 |
| a-Chlordane               | ND     | 0.00050 | 5  | 07/28/2025 11:26 |
| g-Chlordane               | ND     | 0.00050 | 5  | 07/28/2025 11:26 |
| p,p-DDD                   | 0.0028 | 0.00050 | 5  | 07/28/2025 11:26 |
| p,p-DDE                   | 0.034  | 0.00050 | 5  | 07/28/2025 11:26 |
| p,p-DDT                   | 0.0026 | 0.00050 | 5  | 07/28/2025 11:26 |
| Dieldrin                  | 0.0021 | 0.00050 | 5  | 07/28/2025 11:26 |
| Endosulfan I              | ND     | 0.00050 | 5  | 07/28/2025 11:26 |
| Endosulfan II             | ND     | 0.00050 | 5  | 07/28/2025 11:26 |
| Endosulfan sulfate        | ND     | 0.00050 | 5  | 07/28/2025 11:26 |
| Endrin                    | ND     | 0.00050 | 5  | 07/28/2025 11:26 |
| Endrin aldehyde           | ND     | 0.00050 | 5  | 07/28/2025 11:26 |
| Endrin ketone             | ND     | 0.00050 | 5  | 07/28/2025 11:26 |
| Heptachlor                | ND     | 0.00050 | 5  | 07/28/2025 11:26 |
| Heptachlor epoxide        | ND     | 0.00050 | 5  | 07/28/2025 11:26 |
| Hexachlorobenzene         | ND     | 0.0050  | 5  | 07/28/2025 11:26 |
| Hexachlorocyclopentadiene | ND     | 0.010   | 5  | 07/28/2025 11:26 |
| Methoxychlor              | ND     | 0.0010  | 5  | 07/28/2025 11:26 |
| Toxaphene                 | ND     | 0.050   | 5  | 07/28/2025 11:26 |

| Surrogates         | REC (%) | Limits | DE | Date Analyzed    |
|--------------------|---------|--------|----|------------------|
| Decachlorobiphenyl | 102     | 20-145 | 5  | 07/28/2025 11:26 |

Analyst(s): CN

Analytical Comments: a2,h7,h8

(Cont.)





## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/23/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640Am/3630Cm  
**Analytical Method:** SW8081 B  
**Unit:** mg/kg

### Organochlorine Pesticides LL ESLs

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-03-1   | 2507B37-005A | Soil   | 07/15/2025 15:09 | GC23 07282515.d | 322009   |

| Analytes                  | Result  | RL      | DE | Date Analyzed    |
|---------------------------|---------|---------|----|------------------|
| Aldrin                    | ND      | 0.00020 | 2  | 07/28/2025 11:41 |
| a-BHC                     | ND      | 0.00020 | 2  | 07/28/2025 11:41 |
| b-BHC                     | ND      | 0.00020 | 2  | 07/28/2025 11:41 |
| d-BHC                     | ND      | 0.00020 | 2  | 07/28/2025 11:41 |
| g-BHC                     | ND      | 0.00020 | 2  | 07/28/2025 11:41 |
| Chlordane (Technical)     | ND      | 0.0050  | 2  | 07/28/2025 11:41 |
| a-Chlordane               | ND      | 0.00020 | 2  | 07/28/2025 11:41 |
| g-Chlordane               | ND      | 0.00020 | 2  | 07/28/2025 11:41 |
| p,p-DDD                   | 0.00038 | 0.00020 | 2  | 07/28/2025 11:41 |
| p,p-DDE                   | 0.0025  | 0.00020 | 2  | 07/28/2025 11:41 |
| p,p-DDT                   | 0.00039 | 0.00020 | 2  | 07/28/2025 11:41 |
| Dieldrin                  | ND      | 0.00020 | 2  | 07/28/2025 11:41 |
| Endosulfan I              | ND      | 0.00020 | 2  | 07/28/2025 11:41 |
| Endosulfan II             | ND      | 0.00020 | 2  | 07/28/2025 11:41 |
| Endosulfan sulfate        | ND      | 0.00020 | 2  | 07/28/2025 11:41 |
| Endrin                    | ND      | 0.00020 | 2  | 07/28/2025 11:41 |
| Endrin aldehyde           | ND      | 0.00020 | 2  | 07/28/2025 11:41 |
| Endrin ketone             | ND      | 0.00020 | 2  | 07/28/2025 11:41 |
| Heptachlor                | ND      | 0.00020 | 2  | 07/28/2025 11:41 |
| Heptachlor epoxide        | ND      | 0.00020 | 2  | 07/28/2025 11:41 |
| Hexachlorobenzene         | ND      | 0.0020  | 2  | 07/28/2025 11:41 |
| Hexachlorocyclopentadiene | ND      | 0.0040  | 2  | 07/28/2025 11:41 |
| Methoxychlor              | ND      | 0.00040 | 2  | 07/28/2025 11:41 |
| Toxaphene                 | ND      | 0.020   | 2  | 07/28/2025 11:41 |

| Surrogates         | REC (%) | Limits | DE | Date Analyzed    |
|--------------------|---------|--------|----|------------------|
| Decachlorobiphenyl | 95      | 20-145 | 2  | 07/28/2025 11:41 |

Analyst(s): CN

Analytical Comments: a2,h7,h8

(Cont.)



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/23/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640Am/3630Cm  
**Analytical Method:** SW8081 B  
**Unit:** mg/kg

### Organochlorine Pesticides LL ESLs

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-04-1   | 2507B37-007A | Soil   | 07/16/2025 10:40 | GC23 07282516.d | 322009   |

| Analytes                  | Result  | Qualifiers | RL      | DE | Date Analyzed    |
|---------------------------|---------|------------|---------|----|------------------|
| Aldrin                    | ND      |            | 0.00050 | 5  | 07/28/2025 11:57 |
| a-BHC                     | ND      |            | 0.00050 | 5  | 07/28/2025 11:57 |
| b-BHC                     | ND      |            | 0.00050 | 5  | 07/28/2025 11:57 |
| d-BHC                     | ND      |            | 0.00050 | 5  | 07/28/2025 11:57 |
| g-BHC                     | ND      |            | 0.00050 | 5  | 07/28/2025 11:57 |
| Chlordane (Technical)     | ND      |            | 0.012   | 5  | 07/28/2025 11:57 |
| a-Chlordane               | ND      |            | 0.00050 | 5  | 07/28/2025 11:57 |
| g-Chlordane               | 0.00093 | P          | 0.00050 | 5  | 07/28/2025 11:57 |
| p,p-DDD                   | 0.024   |            | 0.00050 | 5  | 07/28/2025 11:57 |
| p,p-DDE                   | 0.11    |            | 0.00050 | 5  | 07/28/2025 11:57 |
| p,p-DDT                   | 0.051   |            | 0.00050 | 5  | 07/28/2025 11:57 |
| Dieldrin                  | ND      |            | 0.00050 | 5  | 07/28/2025 11:57 |
| Endosulfan I              | ND      |            | 0.00050 | 5  | 07/28/2025 11:57 |
| Endosulfan II             | ND      |            | 0.00050 | 5  | 07/28/2025 11:57 |
| Endosulfan sulfate        | 0.00076 |            | 0.00050 | 5  | 07/28/2025 11:57 |
| Endrin                    | ND      |            | 0.00050 | 5  | 07/28/2025 11:57 |
| Endrin aldehyde           | ND      |            | 0.00050 | 5  | 07/28/2025 11:57 |
| Endrin ketone             | ND      |            | 0.00050 | 5  | 07/28/2025 11:57 |
| Heptachlor                | ND      |            | 0.00050 | 5  | 07/28/2025 11:57 |
| Heptachlor epoxide        | ND      |            | 0.00050 | 5  | 07/28/2025 11:57 |
| Hexachlorobenzene         | ND      |            | 0.0050  | 5  | 07/28/2025 11:57 |
| Hexachlorocyclopentadiene | ND      |            | 0.010   | 5  | 07/28/2025 11:57 |
| Methoxychlor              | ND      |            | 0.0010  | 5  | 07/28/2025 11:57 |
| Toxaphene                 | ND      |            | 0.050   | 5  | 07/28/2025 11:57 |

| Surrogates         | REC (%) | Limits | DE | Date Analyzed    |
|--------------------|---------|--------|----|------------------|
| Decachlorobiphenyl | 102     | 20-145 | 5  | 07/28/2025 11:57 |

Analyst(s): CN

Analytical Comments: a2,h8

(Cont.)



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/23/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640Am/3630Cm  
**Analytical Method:** SW8081 B  
**Unit:** mg/kg

### Organochlorine Pesticides LL ESLs

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-05-1   | 2507B37-009A | Soil   | 07/16/2025 08:12 | GC23 07282517.d | 322009   |

| Analytes                  | Result | RL     | DE | Date Analyzed    |
|---------------------------|--------|--------|----|------------------|
| Aldrin                    | ND     | 0.0020 | 20 | 07/28/2025 12:12 |
| a-BHC                     | ND     | 0.0020 | 20 | 07/28/2025 12:12 |
| b-BHC                     | ND     | 0.0020 | 20 | 07/28/2025 12:12 |
| d-BHC                     | ND     | 0.0020 | 20 | 07/28/2025 12:12 |
| g-BHC                     | ND     | 0.0020 | 20 | 07/28/2025 12:12 |
| Chlordane (Technical)     | ND     | 0.050  | 20 | 07/28/2025 12:12 |
| a-Chlordane               | ND     | 0.0020 | 20 | 07/28/2025 12:12 |
| g-Chlordane               | ND     | 0.0020 | 20 | 07/28/2025 12:12 |
| p,p-DDD                   | 0.55   | 0.0020 | 20 | 07/28/2025 12:12 |
| p,p-DDE                   | 0.86   | 0.0020 | 20 | 07/28/2025 12:12 |
| p,p-DDT                   | 0.030  | 0.0020 | 20 | 07/28/2025 12:12 |
| Dieldrin                  | 0.030  | 0.0020 | 20 | 07/28/2025 12:12 |
| Endosulfan I              | 0.0085 | 0.0020 | 20 | 07/28/2025 12:12 |
| Endosulfan II             | ND     | 0.0020 | 20 | 07/28/2025 12:12 |
| Endosulfan sulfate        | ND     | 0.0020 | 20 | 07/28/2025 12:12 |
| Endrin                    | ND     | 0.0020 | 20 | 07/28/2025 12:12 |
| Endrin aldehyde           | ND     | 0.0020 | 20 | 07/28/2025 12:12 |
| Endrin ketone             | ND     | 0.0020 | 20 | 07/28/2025 12:12 |
| Heptachlor                | ND     | 0.0020 | 20 | 07/28/2025 12:12 |
| Heptachlor epoxide        | ND     | 0.0020 | 20 | 07/28/2025 12:12 |
| Hexachlorobenzene         | ND     | 0.020  | 20 | 07/28/2025 12:12 |
| Hexachlorocyclopentadiene | ND     | 0.040  | 20 | 07/28/2025 12:12 |
| Methoxychlor              | ND     | 0.0040 | 20 | 07/28/2025 12:12 |
| Toxaphene                 | ND     | 0.20   | 20 | 07/28/2025 12:12 |

| Surrogates         | REC (%) | Limits | DE | Date Analyzed    |
|--------------------|---------|--------|----|------------------|
| Decachlorobiphenyl | 109     | 20-145 | 20 | 07/28/2025 12:12 |

Analyst(s): CN

Analytical Comments: a2,h7,h8

(Cont.)



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/23/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640Am/3630Cm  
**Analytical Method:** SW8081 B  
**Unit:** mg/kg

### Organochlorine Pesticides LL ESLs

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-06-1.5 | 2507B37-011A | Soil   | 07/16/2025 14:00 | GC23 07282522.d | 322009   |

| Analytes                  | Result | Qualifiers | RL     | DE | Date Analyzed    |
|---------------------------|--------|------------|--------|----|------------------|
| Aldrin                    | ND     |            | 0.0010 | 10 | 07/28/2025 13:29 |
| a-BHC                     | ND     |            | 0.0010 | 10 | 07/28/2025 13:29 |
| b-BHC                     | ND     |            | 0.0010 | 10 | 07/28/2025 13:29 |
| d-BHC                     | ND     |            | 0.0010 | 10 | 07/28/2025 13:29 |
| g-BHC                     | ND     |            | 0.0010 | 10 | 07/28/2025 13:29 |
| Chlordane (Technical)     | ND     |            | 0.025  | 10 | 07/28/2025 13:29 |
| a-Chlordane               | ND     |            | 0.0010 | 10 | 07/28/2025 13:29 |
| g-Chlordane               | ND     |            | 0.0010 | 10 | 07/28/2025 13:29 |
| p,p-DDD                   | 0.25   |            | 0.0010 | 10 | 07/28/2025 13:29 |
| p,p-DDE                   | 0.34   |            | 0.0010 | 10 | 07/28/2025 13:29 |
| p,p-DDT                   | 0.011  |            | 0.0010 | 10 | 07/28/2025 13:29 |
| Dieldrin                  | 0.0079 | P          | 0.0010 | 10 | 07/28/2025 13:29 |
| Endosulfan I              | ND     |            | 0.0010 | 10 | 07/28/2025 13:29 |
| Endosulfan II             | ND     |            | 0.0010 | 10 | 07/28/2025 13:29 |
| Endosulfan sulfate        | 0.0080 |            | 0.0010 | 10 | 07/28/2025 13:29 |
| Endrin                    | ND     |            | 0.0010 | 10 | 07/28/2025 13:29 |
| Endrin aldehyde           | ND     |            | 0.0010 | 10 | 07/28/2025 13:29 |
| Endrin ketone             | ND     |            | 0.0010 | 10 | 07/28/2025 13:29 |
| Heptachlor                | ND     |            | 0.0010 | 10 | 07/28/2025 13:29 |
| Heptachlor epoxide        | ND     |            | 0.0010 | 10 | 07/28/2025 13:29 |
| Hexachlorobenzene         | ND     |            | 0.010  | 10 | 07/28/2025 13:29 |
| Hexachlorocyclopentadiene | ND     |            | 0.020  | 10 | 07/28/2025 13:29 |
| Methoxychlor              | ND     |            | 0.0020 | 10 | 07/28/2025 13:29 |
| Toxaphene                 | ND     |            | 0.10   | 10 | 07/28/2025 13:29 |

| Surrogates         | REC (%) | Limits | DE |                  |
|--------------------|---------|--------|----|------------------|
| Decachlorobiphenyl | 108     | 20-145 | 10 | 07/28/2025 13:29 |

Analyst(s): CN

Analytical Comments: a2,h8

(Cont.)



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/23/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640Am/3630Cm  
**Analytical Method:** SW8081 B  
**Unit:** mg/kg

### Organochlorine Pesticides LL ESLs

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-07-1   | 2507B37-013A | Soil   | 07/16/2025 13:25 | GC23 07282523.d | 322009   |

| Analytes                  | Result | RL      | DE | Date Analyzed    |
|---------------------------|--------|---------|----|------------------|
| Aldrin                    | ND     | 0.00050 | 5  | 07/28/2025 13:45 |
| a-BHC                     | ND     | 0.00050 | 5  | 07/28/2025 13:45 |
| b-BHC                     | ND     | 0.00050 | 5  | 07/28/2025 13:45 |
| d-BHC                     | ND     | 0.00050 | 5  | 07/28/2025 13:45 |
| g-BHC                     | ND     | 0.00050 | 5  | 07/28/2025 13:45 |
| Chlordane (Technical)     | ND     | 0.012   | 5  | 07/28/2025 13:45 |
| a-Chlordane               | ND     | 0.00050 | 5  | 07/28/2025 13:45 |
| g-Chlordane               | ND     | 0.00050 | 5  | 07/28/2025 13:45 |
| p,p-DDD                   | 0.010  | 0.00050 | 5  | 07/28/2025 13:45 |
| p,p-DDE                   | 0.055  | 0.00050 | 5  | 07/28/2025 13:45 |
| p,p-DDT                   | 0.029  | 0.00050 | 5  | 07/28/2025 13:45 |
| Dieldrin                  | 0.0015 | 0.00050 | 5  | 07/28/2025 13:45 |
| Endosulfan I              | ND     | 0.00050 | 5  | 07/28/2025 13:45 |
| Endosulfan II             | ND     | 0.00050 | 5  | 07/28/2025 13:45 |
| Endosulfan sulfate        | ND     | 0.00050 | 5  | 07/28/2025 13:45 |
| Endrin                    | ND     | 0.00050 | 5  | 07/28/2025 13:45 |
| Endrin aldehyde           | ND     | 0.00050 | 5  | 07/28/2025 13:45 |
| Endrin ketone             | ND     | 0.00050 | 5  | 07/28/2025 13:45 |
| Heptachlor                | ND     | 0.00050 | 5  | 07/28/2025 13:45 |
| Heptachlor epoxide        | ND     | 0.00050 | 5  | 07/28/2025 13:45 |
| Hexachlorobenzene         | ND     | 0.0050  | 5  | 07/28/2025 13:45 |
| Hexachlorocyclopentadiene | ND     | 0.010   | 5  | 07/28/2025 13:45 |
| Methoxychlor              | ND     | 0.0010  | 5  | 07/28/2025 13:45 |
| Toxaphene                 | ND     | 0.050   | 5  | 07/28/2025 13:45 |

| Surrogates         | REC (%) | Limits | DE | Date Analyzed    |
|--------------------|---------|--------|----|------------------|
| Decachlorobiphenyl | 83      | 20-145 | 5  | 07/28/2025 13:45 |

Analyst(s): CN

Analytical Comments: a2,h8

(Cont.)



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/23/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640Am/3630Cm  
**Analytical Method:** SW8081 B  
**Unit:** mg/kg

### Organochlorine Pesticides LL ESLs

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-08-1   | 2507B37-015A | Soil   | 07/16/2025 11:35 | GC23 07282524.d | 322009   |

| Analytes                  | Result | RL      | DE | Date Analyzed    |
|---------------------------|--------|---------|----|------------------|
| Aldrin                    | ND     | 0.00050 | 5  | 07/28/2025 13:59 |
| a-BHC                     | ND     | 0.00050 | 5  | 07/28/2025 13:59 |
| b-BHC                     | ND     | 0.00050 | 5  | 07/28/2025 13:59 |
| d-BHC                     | ND     | 0.00050 | 5  | 07/28/2025 13:59 |
| g-BHC                     | ND     | 0.00050 | 5  | 07/28/2025 13:59 |
| Chlordane (Technical)     | ND     | 0.012   | 5  | 07/28/2025 13:59 |
| a-Chlordane               | ND     | 0.00050 | 5  | 07/28/2025 13:59 |
| g-Chlordane               | ND     | 0.00050 | 5  | 07/28/2025 13:59 |
| p,p-DDD                   | 0.0077 | 0.00050 | 5  | 07/28/2025 13:59 |
| p,p-DDE                   | 0.10   | 0.00050 | 5  | 07/28/2025 13:59 |
| p,p-DDT                   | 0.035  | 0.00050 | 5  | 07/28/2025 13:59 |
| Dieldrin                  | ND     | 0.00050 | 5  | 07/28/2025 13:59 |
| Endosulfan I              | ND     | 0.00050 | 5  | 07/28/2025 13:59 |
| Endosulfan II             | ND     | 0.00050 | 5  | 07/28/2025 13:59 |
| Endosulfan sulfate        | ND     | 0.00050 | 5  | 07/28/2025 13:59 |
| Endrin                    | ND     | 0.00050 | 5  | 07/28/2025 13:59 |
| Endrin aldehyde           | ND     | 0.00050 | 5  | 07/28/2025 13:59 |
| Endrin ketone             | ND     | 0.00050 | 5  | 07/28/2025 13:59 |
| Heptachlor                | ND     | 0.00050 | 5  | 07/28/2025 13:59 |
| Heptachlor epoxide        | ND     | 0.00050 | 5  | 07/28/2025 13:59 |
| Hexachlorobenzene         | ND     | 0.0050  | 5  | 07/28/2025 13:59 |
| Hexachlorocyclopentadiene | ND     | 0.010   | 5  | 07/28/2025 13:59 |
| Methoxychlor              | ND     | 0.0010  | 5  | 07/28/2025 13:59 |
| Toxaphene                 | ND     | 0.050   | 5  | 07/28/2025 13:59 |

| Surrogates         | REC (%) | Limits | DE | Date Analyzed    |
|--------------------|---------|--------|----|------------------|
| Decachlorobiphenyl | 91      | 20-145 | 5  | 07/28/2025 13:59 |

Analyst(s): CN

Analytical Comments: a2,h8

(Cont.)



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/23/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640Am/3630Cm  
**Analytical Method:** SW8081 B  
**Unit:** mg/kg

### Organochlorine Pesticides LL ESLs

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-09-1   | 2507B37-017A | Soil   | 07/16/2025 11:56 | GC23 07282525.d | 322009   |

| Analytes                  | Result | Qualifiers | RL     | DE | Date Analyzed    |
|---------------------------|--------|------------|--------|----|------------------|
| Aldrin                    | ND     |            | 0.0010 | 10 | 07/28/2025 14:15 |
| a-BHC                     | ND     |            | 0.0010 | 10 | 07/28/2025 14:15 |
| b-BHC                     | ND     |            | 0.0010 | 10 | 07/28/2025 14:15 |
| d-BHC                     | ND     |            | 0.0010 | 10 | 07/28/2025 14:15 |
| g-BHC                     | ND     |            | 0.0010 | 10 | 07/28/2025 14:15 |
| Chlordane (Technical)     | ND     |            | 0.025  | 10 | 07/28/2025 14:15 |
| a-Chlordane               | ND     |            | 0.0010 | 10 | 07/28/2025 14:15 |
| g-Chlordane               | ND     |            | 0.0010 | 10 | 07/28/2025 14:15 |
| p,p-DDT                   | 0.11   |            | 0.0010 | 10 | 07/28/2025 14:15 |
| Dieldrin                  | ND     |            | 0.0010 | 10 | 07/28/2025 14:15 |
| Endosulfan I              | 0.014  | P          | 0.0010 | 10 | 07/28/2025 14:15 |
| Endosulfan II             | ND     |            | 0.0010 | 10 | 07/28/2025 14:15 |
| Endosulfan sulfate        | 0.017  |            | 0.0010 | 10 | 07/28/2025 14:15 |
| Endrin                    | ND     |            | 0.0010 | 10 | 07/28/2025 14:15 |
| Endrin aldehyde           | ND     |            | 0.0010 | 10 | 07/28/2025 14:15 |
| Endrin ketone             | ND     |            | 0.0010 | 10 | 07/28/2025 14:15 |
| Heptachlor                | ND     |            | 0.0010 | 10 | 07/28/2025 14:15 |
| Heptachlor epoxide        | ND     |            | 0.0010 | 10 | 07/28/2025 14:15 |
| Hexachlorobenzene         | ND     |            | 0.010  | 10 | 07/28/2025 14:15 |
| Hexachlorocyclopentadiene | ND     |            | 0.020  | 10 | 07/28/2025 14:15 |
| Methoxychlor              | ND     |            | 0.0020 | 10 | 07/28/2025 14:15 |
| Toxaphene                 | ND     |            | 0.10   | 10 | 07/28/2025 14:15 |

| Surrogates         | REC (%) | Limits | DE |                  |
|--------------------|---------|--------|----|------------------|
| Decachlorobiphenyl | 122     | 20-145 | 10 | 07/28/2025 14:15 |

**Analyst(s):** CN

**Analytical Comments:** a2,h8



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-01-1   | 2507B37-001A | Soil   | 07/15/2025 12:11 | GC38 07232510.D | 321695   |

| Analytes                      | Result | RL      | DE | Date Analyzed    |
|-------------------------------|--------|---------|----|------------------|
| Acetone                       | ND     | 0.20    | 1  | 07/23/2025 13:10 |
| tert-Amyl methyl ether (TAME) | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| Benzene                       | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| Bromobenzene                  | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| Bromochloromethane            | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| Bromodichloromethane          | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| Bromoform                     | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| Bromomethane                  | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| 2-Butanone (MEK)              | ND     | 0.10    | 1  | 07/23/2025 13:10 |
| t-Butyl alcohol (TBA)         | ND     | 0.050   | 1  | 07/23/2025 13:10 |
| n-Butyl benzene               | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| sec-Butyl benzene             | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| tert-Butyl benzene            | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| Carbon Disulfide              | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| Carbon Tetrachloride          | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| Chlorobenzene                 | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| Chloroethane                  | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| Chloroform                    | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| Chloromethane                 | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| 2-Chlorotoluene               | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| 4-Chlorotoluene               | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| Dibromochloromethane          | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| 1,2-Dibromo-3-chloropropane   | ND     | 0.00050 | 1  | 07/23/2025 13:10 |
| 1,2-Dibromoethane (EDB)       | ND     | 0.00025 | 1  | 07/23/2025 13:10 |
| Dibromomethane                | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| 1,2-Dichlorobenzene           | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| 1,3-Dichlorobenzene           | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| 1,4-Dichlorobenzene           | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| Dichlorodifluoromethane       | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| 1,1-Dichloroethane            | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| 1,2-Dichloroethane (1,2-DCA)  | ND     | 0.00010 | 1  | 07/23/2025 13:10 |
| 1,1-Dichloroethene            | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| cis-1,2-Dichloroethene        | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| trans-1,2-Dichloroethene      | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| 1,2-Dichloropropane           | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| 1,3-Dichloropropane           | ND     | 0.0050  | 1  | 07/23/2025 13:10 |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-01-1   | 2507B37-001A | Soil   | 07/15/2025 12:11 | GC38 07232510.D | 321695   |

| Analytes                      | Result | RL      | DE | Date Analyzed    |
|-------------------------------|--------|---------|----|------------------|
| 2,2-Dichloropropane           | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| 1,1-Dichloropropene           | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| cis-1,3-Dichloropropene       | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| trans-1,3-Dichloropropene     | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| Diisopropyl ether (DIPE)      | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| Ethylbenzene                  | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| Ethyl tert-butyl ether (ETBE) | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| Freon 113                     | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| Hexachlorobutadiene           | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| Hexachloroethane              | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| 2-Hexanone                    | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| Isopropylbenzene              | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| 4-Isopropyl toluene           | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| Methyl-t-butyl ether (MTBE)   | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| Methylene chloride            | ND     | 0.020   | 1  | 07/23/2025 13:10 |
| 4-Methyl-2-pentanone (MIBK)   | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| Naphthalene                   | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| n-Propyl benzene              | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| Styrene                       | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| 1,1,1,2-Tetrachloroethane     | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| 1,1,2,2-Tetrachloroethane     | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| Tetrachloroethene             | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| Toluene                       | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| 1,2,3-Trichlorobenzene        | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| 1,2,4-Trichlorobenzene        | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| 1,1,1-Trichloroethane         | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| 1,1,2-Trichloroethane         | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| Trichloroethene               | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| Trichlorofluoromethane        | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| 1,2,3-Trichloropropane        | ND     | 0.00025 | 1  | 07/23/2025 13:10 |
| 1,2,4-Trimethylbenzene        | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| 1,3,5-Trimethylbenzene        | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| Vinyl Chloride                | ND     | 0.00025 | 1  | 07/23/2025 13:10 |
| m,p-Xylene                    | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| o-Xylene                      | ND     | 0.0050  | 1  | 07/23/2025 13:10 |
| Xylenes, Total                | ND     | 0.0050  | 1  | 07/23/2025 13:10 |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-01-1   | 2507B37-001A | Soil   | 07/15/2025 12:11 | GC38 07232510.D | 321695   |

| Analytes             | Result         | RL            | DE        | Date Analyzed    |
|----------------------|----------------|---------------|-----------|------------------|
| <u>Surrogates</u>    | <u>REC (%)</u> | <u>Limits</u> | <u>DE</u> |                  |
| Dibromofluoromethane | 89             | 70-140        | 1         | 07/23/2025 13:10 |
| Toluene-d8           | 110            | 70-140        | 1         | 07/23/2025 13:10 |
| 4-BFB                | 99             | 70-140        | 1         | 07/23/2025 13:10 |
| Benzene-d6           | 102            | 50-140        | 1         | 07/23/2025 13:10 |
| Ethylbenzene-d10     | 111            | 50-140        | 1         | 07/23/2025 13:10 |
| 1,2-DCB-d4           | 74             | 40-140        | 1         | 07/23/2025 13:10 |

Analyst(s): TW



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID                     | Lab ID       | Matrix | Date Collected   |    | Instrument       | Batch ID |
|-------------------------------|--------------|--------|------------------|----|------------------|----------|
| SB-01-9.5                     | 2507B37-002A | Soil   | 07/15/2025 12:42 |    | GC38 07232511.D  | 321695   |
| Analytes                      | Result       |        | RL               | DE | Date Analyzed    |          |
| Acetone                       | ND           |        | 0.20             | 1  | 07/23/2025 13:49 |          |
| tert-Amyl methyl ether (TAME) | ND           |        | 0.0050           | 1  | 07/23/2025 13:49 |          |
| Benzene                       | ND           |        | 0.0050           | 1  | 07/23/2025 13:49 |          |
| Bromobenzene                  | ND           |        | 0.0050           | 1  | 07/23/2025 13:49 |          |
| Bromochloromethane            | ND           |        | 0.0050           | 1  | 07/23/2025 13:49 |          |
| Bromodichloromethane          | ND           |        | 0.0050           | 1  | 07/23/2025 13:49 |          |
| Bromoform                     | ND           |        | 0.0050           | 1  | 07/23/2025 13:49 |          |
| Bromomethane                  | ND           |        | 0.0050           | 1  | 07/23/2025 13:49 |          |
| 2-Butanone (MEK)              | ND           |        | 0.10             | 1  | 07/23/2025 13:49 |          |
| t-Butyl alcohol (TBA)         | ND           |        | 0.050            | 1  | 07/23/2025 13:49 |          |
| n-Butyl benzene               | ND           |        | 0.0050           | 1  | 07/23/2025 13:49 |          |
| sec-Butyl benzene             | ND           |        | 0.0050           | 1  | 07/23/2025 13:49 |          |
| tert-Butyl benzene            | ND           |        | 0.0050           | 1  | 07/23/2025 13:49 |          |
| Carbon Disulfide              | ND           |        | 0.0050           | 1  | 07/23/2025 13:49 |          |
| Carbon Tetrachloride          | ND           |        | 0.0050           | 1  | 07/23/2025 13:49 |          |
| Chlorobenzene                 | ND           |        | 0.0050           | 1  | 07/23/2025 13:49 |          |
| Chloroethane                  | ND           |        | 0.0050           | 1  | 07/23/2025 13:49 |          |
| Chloroform                    | ND           |        | 0.0050           | 1  | 07/23/2025 13:49 |          |
| Chloromethane                 | ND           |        | 0.0050           | 1  | 07/23/2025 13:49 |          |
| 2-Chlorotoluene               | ND           |        | 0.0050           | 1  | 07/23/2025 13:49 |          |
| 4-Chlorotoluene               | ND           |        | 0.0050           | 1  | 07/23/2025 13:49 |          |
| Dibromochloromethane          | ND           |        | 0.0050           | 1  | 07/23/2025 13:49 |          |
| 1,2-Dibromo-3-chloropropane   | ND           |        | 0.00050          | 1  | 07/23/2025 13:49 |          |
| 1,2-Dibromoethane (EDB)       | ND           |        | 0.00025          | 1  | 07/23/2025 13:49 |          |
| Dibromomethane                | ND           |        | 0.0050           | 1  | 07/23/2025 13:49 |          |
| 1,2-Dichlorobenzene           | ND           |        | 0.0050           | 1  | 07/23/2025 13:49 |          |
| 1,3-Dichlorobenzene           | ND           |        | 0.0050           | 1  | 07/23/2025 13:49 |          |
| 1,4-Dichlorobenzene           | ND           |        | 0.0050           | 1  | 07/23/2025 13:49 |          |
| Dichlorodifluoromethane       | ND           |        | 0.0050           | 1  | 07/23/2025 13:49 |          |
| 1,1-Dichloroethane            | ND           |        | 0.0050           | 1  | 07/23/2025 13:49 |          |
| 1,2-Dichloroethane (1,2-DCA)  | ND           |        | 0.00010          | 1  | 07/23/2025 13:49 |          |
| 1,1-Dichloroethene            | ND           |        | 0.0050           | 1  | 07/23/2025 13:49 |          |
| cis-1,2-Dichloroethene        | ND           |        | 0.0050           | 1  | 07/23/2025 13:49 |          |
| trans-1,2-Dichloroethene      | ND           |        | 0.0050           | 1  | 07/23/2025 13:49 |          |
| 1,2-Dichloropropane           | ND           |        | 0.0050           | 1  | 07/23/2025 13:49 |          |
| 1,3-Dichloropropane           | ND           |        | 0.0050           | 1  | 07/23/2025 13:49 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-01-9.5 | 2507B37-002A | Soil   | 07/15/2025 12:42 | GC38 07232511.D | 321695   |

| Analytes                      | Result | RL      | DE | Date Analyzed    |
|-------------------------------|--------|---------|----|------------------|
| 2,2-Dichloropropane           | ND     | 0.0050  | 1  | 07/23/2025 13:49 |
| 1,1-Dichloropropene           | ND     | 0.0050  | 1  | 07/23/2025 13:49 |
| cis-1,3-Dichloropropene       | ND     | 0.0050  | 1  | 07/23/2025 13:49 |
| trans-1,3-Dichloropropene     | ND     | 0.0050  | 1  | 07/23/2025 13:49 |
| Diisopropyl ether (DIPE)      | ND     | 0.0050  | 1  | 07/23/2025 13:49 |
| Ethylbenzene                  | ND     | 0.0050  | 1  | 07/23/2025 13:49 |
| Ethyl tert-butyl ether (ETBE) | ND     | 0.0050  | 1  | 07/23/2025 13:49 |
| Freon 113                     | ND     | 0.0050  | 1  | 07/23/2025 13:49 |
| Hexachlorobutadiene           | ND     | 0.0050  | 1  | 07/23/2025 13:49 |
| Hexachloroethane              | ND     | 0.0050  | 1  | 07/23/2025 13:49 |
| 2-Hexanone                    | ND     | 0.0050  | 1  | 07/23/2025 13:49 |
| Isopropylbenzene              | ND     | 0.0050  | 1  | 07/23/2025 13:49 |
| 4-Isopropyl toluene           | ND     | 0.0050  | 1  | 07/23/2025 13:49 |
| Methyl-t-butyl ether (MTBE)   | ND     | 0.0050  | 1  | 07/23/2025 13:49 |
| Methylene chloride            | ND     | 0.020   | 1  | 07/23/2025 13:49 |
| 4-Methyl-2-pentanone (MIBK)   | ND     | 0.0050  | 1  | 07/23/2025 13:49 |
| Naphthalene                   | ND     | 0.0050  | 1  | 07/23/2025 13:49 |
| n-Propyl benzene              | ND     | 0.0050  | 1  | 07/23/2025 13:49 |
| Styrene                       | ND     | 0.0050  | 1  | 07/23/2025 13:49 |
| 1,1,1,2-Tetrachloroethane     | ND     | 0.0050  | 1  | 07/23/2025 13:49 |
| 1,1,2,2-Tetrachloroethane     | ND     | 0.0050  | 1  | 07/23/2025 13:49 |
| Tetrachloroethene             | ND     | 0.0050  | 1  | 07/23/2025 13:49 |
| Toluene                       | ND     | 0.0050  | 1  | 07/23/2025 13:49 |
| 1,2,3-Trichlorobenzene        | ND     | 0.0050  | 1  | 07/23/2025 13:49 |
| 1,2,4-Trichlorobenzene        | ND     | 0.0050  | 1  | 07/23/2025 13:49 |
| 1,1,1-Trichloroethane         | ND     | 0.0050  | 1  | 07/23/2025 13:49 |
| 1,1,2-Trichloroethane         | ND     | 0.0050  | 1  | 07/23/2025 13:49 |
| Trichloroethene               | ND     | 0.0050  | 1  | 07/23/2025 13:49 |
| Trichlorofluoromethane        | ND     | 0.0050  | 1  | 07/23/2025 13:49 |
| 1,2,3-Trichloropropane        | ND     | 0.00025 | 1  | 07/23/2025 13:49 |
| 1,2,4-Trimethylbenzene        | ND     | 0.0050  | 1  | 07/23/2025 13:49 |
| 1,3,5-Trimethylbenzene        | ND     | 0.0050  | 1  | 07/23/2025 13:49 |
| Vinyl Chloride                | ND     | 0.00025 | 1  | 07/23/2025 13:49 |
| m,p-Xylene                    | ND     | 0.0050  | 1  | 07/23/2025 13:49 |
| o-Xylene                      | ND     | 0.0050  | 1  | 07/23/2025 13:49 |
| Xylenes, Total                | ND     | 0.0050  | 1  | 07/23/2025 13:49 |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-01-9.5 | 2507B37-002A | Soil   | 07/15/2025 12:42 | GC38 07232511.D | 321695   |

| Analytes             | Result         | RL            | DE        | Date Analyzed    |
|----------------------|----------------|---------------|-----------|------------------|
| <u>Surrogates</u>    | <u>REC (%)</u> | <u>Limits</u> | <u>DE</u> |                  |
| Dibromofluoromethane | 89             | 70-140        | 1         | 07/23/2025 13:49 |
| Toluene-d8           | 108            | 70-140        | 1         | 07/23/2025 13:49 |
| 4-BFB                | 96             | 70-140        | 1         | 07/23/2025 13:49 |
| Benzene-d6           | 98             | 50-140        | 1         | 07/23/2025 13:49 |
| Ethylbenzene-d10     | 107            | 50-140        | 1         | 07/23/2025 13:49 |
| 1,2-DCB-d4           | 72             | 40-140        | 1         | 07/23/2025 13:49 |

Analyst(s): TW



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID                     | Lab ID       | Matrix  | Date Collected   |                  | Instrument      | Batch ID |
|-------------------------------|--------------|---------|------------------|------------------|-----------------|----------|
| SB-02-1                       | 2507B37-003A | Soil    | 07/15/2025 09:29 |                  | GC38 07232512.D | 321695   |
| Analytes                      | Result       | RL      | DE               | Date Analyzed    |                 |          |
| Acetone                       | ND           | 0.20    | 1                | 07/23/2025 14:27 |                 |          |
| tert-Amyl methyl ether (TAME) | ND           | 0.0050  | 1                | 07/23/2025 14:27 |                 |          |
| Benzene                       | ND           | 0.0050  | 1                | 07/23/2025 14:27 |                 |          |
| Bromobenzene                  | ND           | 0.0050  | 1                | 07/23/2025 14:27 |                 |          |
| Bromochloromethane            | ND           | 0.0050  | 1                | 07/23/2025 14:27 |                 |          |
| Bromodichloromethane          | ND           | 0.0050  | 1                | 07/23/2025 14:27 |                 |          |
| Bromoform                     | ND           | 0.0050  | 1                | 07/23/2025 14:27 |                 |          |
| Bromomethane                  | ND           | 0.0050  | 1                | 07/23/2025 14:27 |                 |          |
| 2-Butanone (MEK)              | ND           | 0.10    | 1                | 07/23/2025 14:27 |                 |          |
| t-Butyl alcohol (TBA)         | ND           | 0.050   | 1                | 07/23/2025 14:27 |                 |          |
| n-Butyl benzene               | ND           | 0.0050  | 1                | 07/23/2025 14:27 |                 |          |
| sec-Butyl benzene             | ND           | 0.0050  | 1                | 07/23/2025 14:27 |                 |          |
| tert-Butyl benzene            | ND           | 0.0050  | 1                | 07/23/2025 14:27 |                 |          |
| Carbon Disulfide              | ND           | 0.0050  | 1                | 07/23/2025 14:27 |                 |          |
| Carbon Tetrachloride          | ND           | 0.0050  | 1                | 07/23/2025 14:27 |                 |          |
| Chlorobenzene                 | ND           | 0.0050  | 1                | 07/23/2025 14:27 |                 |          |
| Chloroethane                  | ND           | 0.0050  | 1                | 07/23/2025 14:27 |                 |          |
| Chloroform                    | ND           | 0.0050  | 1                | 07/23/2025 14:27 |                 |          |
| Chloromethane                 | ND           | 0.0050  | 1                | 07/23/2025 14:27 |                 |          |
| 2-Chlorotoluene               | ND           | 0.0050  | 1                | 07/23/2025 14:27 |                 |          |
| 4-Chlorotoluene               | ND           | 0.0050  | 1                | 07/23/2025 14:27 |                 |          |
| Dibromochloromethane          | ND           | 0.0050  | 1                | 07/23/2025 14:27 |                 |          |
| 1,2-Dibromo-3-chloropropane   | ND           | 0.00050 | 1                | 07/23/2025 14:27 |                 |          |
| 1,2-Dibromoethane (EDB)       | ND           | 0.00025 | 1                | 07/23/2025 14:27 |                 |          |
| Dibromomethane                | ND           | 0.0050  | 1                | 07/23/2025 14:27 |                 |          |
| 1,2-Dichlorobenzene           | ND           | 0.0050  | 1                | 07/23/2025 14:27 |                 |          |
| 1,3-Dichlorobenzene           | ND           | 0.0050  | 1                | 07/23/2025 14:27 |                 |          |
| 1,4-Dichlorobenzene           | ND           | 0.0050  | 1                | 07/23/2025 14:27 |                 |          |
| Dichlorodifluoromethane       | ND           | 0.0050  | 1                | 07/23/2025 14:27 |                 |          |
| 1,1-Dichloroethane            | ND           | 0.0050  | 1                | 07/23/2025 14:27 |                 |          |
| 1,2-Dichloroethane (1,2-DCA)  | ND           | 0.00010 | 1                | 07/23/2025 14:27 |                 |          |
| 1,1-Dichloroethene            | ND           | 0.0050  | 1                | 07/23/2025 14:27 |                 |          |
| cis-1,2-Dichloroethene        | ND           | 0.0050  | 1                | 07/23/2025 14:27 |                 |          |
| trans-1,2-Dichloroethene      | ND           | 0.0050  | 1                | 07/23/2025 14:27 |                 |          |
| 1,2-Dichloropropane           | ND           | 0.0050  | 1                | 07/23/2025 14:27 |                 |          |
| 1,3-Dichloropropane           | ND           | 0.0050  | 1                | 07/23/2025 14:27 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-02-1   | 2507B37-003A | Soil   | 07/15/2025 09:29 | GC38 07232512.D | 321695   |

| Analytes                      | Result | RL      | DE | Date Analyzed    |
|-------------------------------|--------|---------|----|------------------|
| 2,2-Dichloropropane           | ND     | 0.0050  | 1  | 07/23/2025 14:27 |
| 1,1-Dichloropropene           | ND     | 0.0050  | 1  | 07/23/2025 14:27 |
| cis-1,3-Dichloropropene       | ND     | 0.0050  | 1  | 07/23/2025 14:27 |
| trans-1,3-Dichloropropene     | ND     | 0.0050  | 1  | 07/23/2025 14:27 |
| Diisopropyl ether (DIPE)      | ND     | 0.0050  | 1  | 07/23/2025 14:27 |
| Ethylbenzene                  | ND     | 0.0050  | 1  | 07/23/2025 14:27 |
| Ethyl tert-butyl ether (ETBE) | ND     | 0.0050  | 1  | 07/23/2025 14:27 |
| Freon 113                     | ND     | 0.0050  | 1  | 07/23/2025 14:27 |
| Hexachlorobutadiene           | ND     | 0.0050  | 1  | 07/23/2025 14:27 |
| Hexachloroethane              | ND     | 0.0050  | 1  | 07/23/2025 14:27 |
| 2-Hexanone                    | ND     | 0.0050  | 1  | 07/23/2025 14:27 |
| Isopropylbenzene              | ND     | 0.0050  | 1  | 07/23/2025 14:27 |
| 4-Isopropyl toluene           | ND     | 0.0050  | 1  | 07/23/2025 14:27 |
| Methyl-t-butyl ether (MTBE)   | ND     | 0.0050  | 1  | 07/23/2025 14:27 |
| Methylene chloride            | ND     | 0.020   | 1  | 07/23/2025 14:27 |
| 4-Methyl-2-pentanone (MIBK)   | ND     | 0.0050  | 1  | 07/23/2025 14:27 |
| Naphthalene                   | ND     | 0.0050  | 1  | 07/23/2025 14:27 |
| n-Propyl benzene              | ND     | 0.0050  | 1  | 07/23/2025 14:27 |
| Styrene                       | ND     | 0.0050  | 1  | 07/23/2025 14:27 |
| 1,1,1,2-Tetrachloroethane     | ND     | 0.0050  | 1  | 07/23/2025 14:27 |
| 1,1,2,2-Tetrachloroethane     | ND     | 0.0050  | 1  | 07/23/2025 14:27 |
| Tetrachloroethene             | ND     | 0.0050  | 1  | 07/23/2025 14:27 |
| Toluene                       | ND     | 0.0050  | 1  | 07/23/2025 14:27 |
| 1,2,3-Trichlorobenzene        | ND     | 0.0050  | 1  | 07/23/2025 14:27 |
| 1,2,4-Trichlorobenzene        | ND     | 0.0050  | 1  | 07/23/2025 14:27 |
| 1,1,1-Trichloroethane         | ND     | 0.0050  | 1  | 07/23/2025 14:27 |
| 1,1,2-Trichloroethane         | ND     | 0.0050  | 1  | 07/23/2025 14:27 |
| Trichloroethene               | ND     | 0.0050  | 1  | 07/23/2025 14:27 |
| Trichlorofluoromethane        | ND     | 0.0050  | 1  | 07/23/2025 14:27 |
| 1,2,3-Trichloropropane        | ND     | 0.00025 | 1  | 07/23/2025 14:27 |
| 1,2,4-Trimethylbenzene        | ND     | 0.0050  | 1  | 07/23/2025 14:27 |
| 1,3,5-Trimethylbenzene        | ND     | 0.0050  | 1  | 07/23/2025 14:27 |
| Vinyl Chloride                | ND     | 0.00025 | 1  | 07/23/2025 14:27 |
| m,p-Xylene                    | ND     | 0.0050  | 1  | 07/23/2025 14:27 |
| o-Xylene                      | ND     | 0.0050  | 1  | 07/23/2025 14:27 |
| Xylenes, Total                | ND     | 0.0050  | 1  | 07/23/2025 14:27 |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-02-1   | 2507B37-003A | Soil   | 07/15/2025 09:29 | GC38 07232512.D | 321695   |

| Analytes             | Result         | RL            | DE        | Date Analyzed    |
|----------------------|----------------|---------------|-----------|------------------|
| <u>Surrogates</u>    | <u>REC (%)</u> | <u>Limits</u> | <u>DE</u> |                  |
| Dibromofluoromethane | 88             | 70-140        | 1         | 07/23/2025 14:27 |
| Toluene-d8           | 108            | 70-140        | 1         | 07/23/2025 14:27 |
| 4-BFB                | 98             | 70-140        | 1         | 07/23/2025 14:27 |
| Benzene-d6           | 97             | 50-140        | 1         | 07/23/2025 14:27 |
| Ethylbenzene-d10     | 106            | 50-140        | 1         | 07/23/2025 14:27 |
| 1,2-DCB-d4           | 71             | 40-140        | 1         | 07/23/2025 14:27 |

Analyst(s): TW





## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID                     | Lab ID       | Matrix  | Date Collected   |                  | Instrument      | Batch ID |
|-------------------------------|--------------|---------|------------------|------------------|-----------------|----------|
| SB-02-10                      | 2507B37-004A | Soil    | 07/15/2025 09:59 |                  | GC38 07232513.D | 321695   |
| Analytes                      | Result       | RL      | DE               | Date Analyzed    |                 |          |
| Acetone                       | ND           | 0.20    | 1                | 07/23/2025 15:06 |                 |          |
| tert-Amyl methyl ether (TAME) | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| Benzene                       | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| Bromobenzene                  | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| Bromochloromethane            | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| Bromodichloromethane          | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| Bromoform                     | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| Bromomethane                  | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| 2-Butanone (MEK)              | ND           | 0.10    | 1                | 07/23/2025 15:06 |                 |          |
| t-Butyl alcohol (TBA)         | ND           | 0.050   | 1                | 07/23/2025 15:06 |                 |          |
| n-Butyl benzene               | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| sec-Butyl benzene             | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| tert-Butyl benzene            | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| Carbon Disulfide              | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| Carbon Tetrachloride          | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| Chlorobenzene                 | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| Chloroethane                  | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| Chloroform                    | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| Chloromethane                 | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| 2-Chlorotoluene               | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| 4-Chlorotoluene               | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| Dibromochloromethane          | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| 1,2-Dibromo-3-chloropropane   | ND           | 0.00050 | 1                | 07/23/2025 15:06 |                 |          |
| 1,2-Dibromoethane (EDB)       | ND           | 0.00025 | 1                | 07/23/2025 15:06 |                 |          |
| Dibromomethane                | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| 1,2-Dichlorobenzene           | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| 1,3-Dichlorobenzene           | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| 1,4-Dichlorobenzene           | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| Dichlorodifluoromethane       | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| 1,1-Dichloroethane            | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| 1,2-Dichloroethane (1,2-DCA)  | ND           | 0.00010 | 1                | 07/23/2025 15:06 |                 |          |
| 1,1-Dichloroethene            | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| cis-1,2-Dichloroethene        | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| trans-1,2-Dichloroethene      | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| 1,2-Dichloropropane           | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| 1,3-Dichloropropane           | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID                     | Lab ID       | Matrix  | Date Collected   |                  | Instrument      | Batch ID |
|-------------------------------|--------------|---------|------------------|------------------|-----------------|----------|
| SB-02-10                      | 2507B37-004A | Soil    | 07/15/2025 09:59 |                  | GC38 07232513.D | 321695   |
| Analytes                      | Result       | RL      | DE               | Date Analyzed    |                 |          |
| 2,2-Dichloropropane           | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| 1,1-Dichloropropene           | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| cis-1,3-Dichloropropene       | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| trans-1,3-Dichloropropene     | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| Diisopropyl ether (DIPE)      | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| Ethylbenzene                  | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| Ethyl tert-butyl ether (ETBE) | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| Freon 113                     | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| Hexachlorobutadiene           | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| Hexachloroethane              | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| 2-Hexanone                    | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| Isopropylbenzene              | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| 4-Isopropyl toluene           | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| Methyl-t-butyl ether (MTBE)   | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| Methylene chloride            | ND           | 0.020   | 1                | 07/23/2025 15:06 |                 |          |
| 4-Methyl-2-pentanone (MIBK)   | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| Naphthalene                   | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| n-Propyl benzene              | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| Styrene                       | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| 1,1,1,2-Tetrachloroethane     | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| 1,1,2,2-Tetrachloroethane     | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| Tetrachloroethene             | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| Toluene                       | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| 1,2,3-Trichlorobenzene        | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| 1,2,4-Trichlorobenzene        | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| 1,1,1-Trichloroethane         | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| 1,1,2-Trichloroethane         | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| Trichloroethene               | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| Trichlorofluoromethane        | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| 1,2,3-Trichloropropane        | ND           | 0.00025 | 1                | 07/23/2025 15:06 |                 |          |
| 1,2,4-Trimethylbenzene        | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| 1,3,5-Trimethylbenzene        | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| Vinyl Chloride                | ND           | 0.00025 | 1                | 07/23/2025 15:06 |                 |          |
| m,p-Xylene                    | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| o-Xylene                      | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |
| Xylenes, Total                | ND           | 0.0050  | 1                | 07/23/2025 15:06 |                 |          |

(Cont.)



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-02-10  | 2507B37-004A | Soil   | 07/15/2025 09:59 | GC38 07232513.D | 321695   |

| Analytes             | Result         | RL            | DE        | Date Analyzed    |
|----------------------|----------------|---------------|-----------|------------------|
| <u>Surrogates</u>    | <u>REC (%)</u> | <u>Limits</u> | <u>DE</u> |                  |
| Dibromofluoromethane | 88             | 70-140        | 1         | 07/23/2025 15:06 |
| Toluene-d8           | 108            | 70-140        | 1         | 07/23/2025 15:06 |
| 4-BFB                | 94             | 70-140        | 1         | 07/23/2025 15:06 |
| Benzene-d6           | 98             | 50-140        | 1         | 07/23/2025 15:06 |
| Ethylbenzene-d10     | 107            | 50-140        | 1         | 07/23/2025 15:06 |
| 1,2-DCB-d4           | 72             | 40-140        | 1         | 07/23/2025 15:06 |

Analyst(s): TW



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID                     | Lab ID       | Matrix  | Date Collected   |                  | Instrument      | Batch ID |
|-------------------------------|--------------|---------|------------------|------------------|-----------------|----------|
| SB-03-1                       | 2507B37-005A | Soil    | 07/15/2025 15:09 |                  | GC38 07232514.D | 321695   |
| Analytes                      | Result       | RL      | DE               | Date Analyzed    |                 |          |
| Acetone                       | ND           | 0.20    | 1                | 07/23/2025 15:44 |                 |          |
| tert-Amyl methyl ether (TAME) | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| Benzene                       | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| Bromobenzene                  | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| Bromochloromethane            | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| Bromodichloromethane          | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| Bromoform                     | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| Bromomethane                  | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| 2-Butanone (MEK)              | ND           | 0.10    | 1                | 07/23/2025 15:44 |                 |          |
| t-Butyl alcohol (TBA)         | ND           | 0.050   | 1                | 07/23/2025 15:44 |                 |          |
| n-Butyl benzene               | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| sec-Butyl benzene             | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| tert-Butyl benzene            | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| Carbon Disulfide              | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| Carbon Tetrachloride          | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| Chlorobenzene                 | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| Chloroethane                  | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| Chloroform                    | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| Chloromethane                 | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| 2-Chlorotoluene               | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| 4-Chlorotoluene               | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| Dibromochloromethane          | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| 1,2-Dibromo-3-chloropropane   | ND           | 0.00050 | 1                | 07/23/2025 15:44 |                 |          |
| 1,2-Dibromoethane (EDB)       | ND           | 0.00025 | 1                | 07/23/2025 15:44 |                 |          |
| Dibromomethane                | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| 1,2-Dichlorobenzene           | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| 1,3-Dichlorobenzene           | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| 1,4-Dichlorobenzene           | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| Dichlorodifluoromethane       | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| 1,1-Dichloroethane            | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| 1,2-Dichloroethane (1,2-DCA)  | ND           | 0.00010 | 1                | 07/23/2025 15:44 |                 |          |
| 1,1-Dichloroethene            | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| cis-1,2-Dichloroethene        | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| trans-1,2-Dichloroethene      | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| 1,2-Dichloropropane           | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| 1,3-Dichloropropane           | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID                     | Lab ID       | Matrix  | Date Collected   |                  | Instrument      | Batch ID |
|-------------------------------|--------------|---------|------------------|------------------|-----------------|----------|
| SB-03-1                       | 2507B37-005A | Soil    | 07/15/2025 15:09 |                  | GC38 07232514.D | 321695   |
| Analytes                      | Result       | RL      | DE               | Date Analyzed    |                 |          |
| 2,2-Dichloropropane           | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| 1,1-Dichloropropene           | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| cis-1,3-Dichloropropene       | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| trans-1,3-Dichloropropene     | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| Diisopropyl ether (DIPE)      | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| Ethylbenzene                  | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| Ethyl tert-butyl ether (ETBE) | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| Freon 113                     | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| Hexachlorobutadiene           | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| Hexachloroethane              | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| 2-Hexanone                    | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| Isopropylbenzene              | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| 4-Isopropyl toluene           | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| Methyl-t-butyl ether (MTBE)   | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| Methylene chloride            | ND           | 0.020   | 1                | 07/23/2025 15:44 |                 |          |
| 4-Methyl-2-pentanone (MIBK)   | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| Naphthalene                   | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| n-Propyl benzene              | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| Styrene                       | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| 1,1,1,2-Tetrachloroethane     | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| 1,1,2,2-Tetrachloroethane     | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| Tetrachloroethene             | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| Toluene                       | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| 1,2,3-Trichlorobenzene        | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| 1,2,4-Trichlorobenzene        | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| 1,1,1-Trichloroethane         | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| 1,1,2-Trichloroethane         | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| Trichloroethene               | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| Trichlorofluoromethane        | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| 1,2,3-Trichloropropane        | ND           | 0.00025 | 1                | 07/23/2025 15:44 |                 |          |
| 1,2,4-Trimethylbenzene        | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| 1,3,5-Trimethylbenzene        | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| Vinyl Chloride                | ND           | 0.00025 | 1                | 07/23/2025 15:44 |                 |          |
| m,p-Xylene                    | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| o-Xylene                      | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |
| Xylenes, Total                | ND           | 0.0050  | 1                | 07/23/2025 15:44 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-03-1   | 2507B37-005A | Soil   | 07/15/2025 15:09 | GC38 07232514.D | 321695   |

| Analytes             | Result         | RL            | DE        | Date Analyzed    |
|----------------------|----------------|---------------|-----------|------------------|
| <u>Surrogates</u>    | <u>REC (%)</u> | <u>Limits</u> | <u>DE</u> |                  |
| Dibromofluoromethane | 88             | 70-140        | 1         | 07/23/2025 15:44 |
| Toluene-d8           | 108            | 70-140        | 1         | 07/23/2025 15:44 |
| 4-BFB                | 93             | 70-140        | 1         | 07/23/2025 15:44 |
| Benzene-d6           | 100            | 50-140        | 1         | 07/23/2025 15:44 |
| Ethylbenzene-d10     | 110            | 50-140        | 1         | 07/23/2025 15:44 |
| 1,2-DCB-d4           | 74             | 40-140        | 1         | 07/23/2025 15:44 |

Analyst(s): TW



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID                     | Lab ID       | Matrix  | Date Collected   |                  | Instrument      | Batch ID |
|-------------------------------|--------------|---------|------------------|------------------|-----------------|----------|
| SB-03-10                      | 2507B37-006A | Soil    | 07/15/2025 15:09 |                  | GC38 07232515.D | 321695   |
| Analytes                      | Result       | RL      | DE               | Date Analyzed    |                 |          |
| Acetone                       | ND           | 0.20    | 1                | 07/23/2025 16:23 |                 |          |
| tert-Amyl methyl ether (TAME) | ND           | 0.0050  | 1                | 07/23/2025 16:23 |                 |          |
| Benzene                       | ND           | 0.0050  | 1                | 07/23/2025 16:23 |                 |          |
| Bromobenzene                  | ND           | 0.0050  | 1                | 07/23/2025 16:23 |                 |          |
| Bromochloromethane            | ND           | 0.0050  | 1                | 07/23/2025 16:23 |                 |          |
| Bromodichloromethane          | ND           | 0.0050  | 1                | 07/23/2025 16:23 |                 |          |
| Bromoform                     | ND           | 0.0050  | 1                | 07/23/2025 16:23 |                 |          |
| Bromomethane                  | ND           | 0.0050  | 1                | 07/23/2025 16:23 |                 |          |
| 2-Butanone (MEK)              | ND           | 0.10    | 1                | 07/23/2025 16:23 |                 |          |
| t-Butyl alcohol (TBA)         | ND           | 0.050   | 1                | 07/23/2025 16:23 |                 |          |
| n-Butyl benzene               | ND           | 0.0050  | 1                | 07/23/2025 16:23 |                 |          |
| sec-Butyl benzene             | ND           | 0.0050  | 1                | 07/23/2025 16:23 |                 |          |
| tert-Butyl benzene            | ND           | 0.0050  | 1                | 07/23/2025 16:23 |                 |          |
| Carbon Disulfide              | ND           | 0.0050  | 1                | 07/23/2025 16:23 |                 |          |
| Carbon Tetrachloride          | ND           | 0.0050  | 1                | 07/23/2025 16:23 |                 |          |
| Chlorobenzene                 | ND           | 0.0050  | 1                | 07/23/2025 16:23 |                 |          |
| Chloroethane                  | ND           | 0.0050  | 1                | 07/23/2025 16:23 |                 |          |
| Chloroform                    | ND           | 0.0050  | 1                | 07/23/2025 16:23 |                 |          |
| Chloromethane                 | ND           | 0.0050  | 1                | 07/23/2025 16:23 |                 |          |
| 2-Chlorotoluene               | ND           | 0.0050  | 1                | 07/23/2025 16:23 |                 |          |
| 4-Chlorotoluene               | ND           | 0.0050  | 1                | 07/23/2025 16:23 |                 |          |
| Dibromochloromethane          | ND           | 0.0050  | 1                | 07/23/2025 16:23 |                 |          |
| 1,2-Dibromo-3-chloropropane   | ND           | 0.00050 | 1                | 07/23/2025 16:23 |                 |          |
| 1,2-Dibromoethane (EDB)       | ND           | 0.00025 | 1                | 07/23/2025 16:23 |                 |          |
| Dibromomethane                | ND           | 0.0050  | 1                | 07/23/2025 16:23 |                 |          |
| 1,2-Dichlorobenzene           | ND           | 0.0050  | 1                | 07/23/2025 16:23 |                 |          |
| 1,3-Dichlorobenzene           | ND           | 0.0050  | 1                | 07/23/2025 16:23 |                 |          |
| 1,4-Dichlorobenzene           | ND           | 0.0050  | 1                | 07/23/2025 16:23 |                 |          |
| Dichlorodifluoromethane       | ND           | 0.0050  | 1                | 07/23/2025 16:23 |                 |          |
| 1,1-Dichloroethane            | ND           | 0.0050  | 1                | 07/23/2025 16:23 |                 |          |
| 1,2-Dichloroethane (1,2-DCA)  | ND           | 0.00010 | 1                | 07/23/2025 16:23 |                 |          |
| 1,1-Dichloroethene            | ND           | 0.0050  | 1                | 07/23/2025 16:23 |                 |          |
| cis-1,2-Dichloroethene        | ND           | 0.0050  | 1                | 07/23/2025 16:23 |                 |          |
| trans-1,2-Dichloroethene      | ND           | 0.0050  | 1                | 07/23/2025 16:23 |                 |          |
| 1,2-Dichloropropane           | ND           | 0.0050  | 1                | 07/23/2025 16:23 |                 |          |
| 1,3-Dichloropropane           | ND           | 0.0050  | 1                | 07/23/2025 16:23 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-03-10  | 2507B37-006A | Soil   | 07/15/2025 15:09 | GC38 07232515.D | 321695   |

| Analytes                      | Result | RL      | DE | Date Analyzed    |
|-------------------------------|--------|---------|----|------------------|
| 2,2-Dichloropropane           | ND     | 0.0050  | 1  | 07/23/2025 16:23 |
| 1,1-Dichloropropene           | ND     | 0.0050  | 1  | 07/23/2025 16:23 |
| cis-1,3-Dichloropropene       | ND     | 0.0050  | 1  | 07/23/2025 16:23 |
| trans-1,3-Dichloropropene     | ND     | 0.0050  | 1  | 07/23/2025 16:23 |
| Diisopropyl ether (DIPE)      | ND     | 0.0050  | 1  | 07/23/2025 16:23 |
| Ethylbenzene                  | ND     | 0.0050  | 1  | 07/23/2025 16:23 |
| Ethyl tert-butyl ether (ETBE) | ND     | 0.0050  | 1  | 07/23/2025 16:23 |
| Freon 113                     | ND     | 0.0050  | 1  | 07/23/2025 16:23 |
| Hexachlorobutadiene           | ND     | 0.0050  | 1  | 07/23/2025 16:23 |
| Hexachloroethane              | ND     | 0.0050  | 1  | 07/23/2025 16:23 |
| 2-Hexanone                    | ND     | 0.0050  | 1  | 07/23/2025 16:23 |
| Isopropylbenzene              | ND     | 0.0050  | 1  | 07/23/2025 16:23 |
| 4-Isopropyl toluene           | ND     | 0.0050  | 1  | 07/23/2025 16:23 |
| Methyl-t-butyl ether (MTBE)   | ND     | 0.0050  | 1  | 07/23/2025 16:23 |
| Methylene chloride            | ND     | 0.020   | 1  | 07/23/2025 16:23 |
| 4-Methyl-2-pentanone (MIBK)   | ND     | 0.0050  | 1  | 07/23/2025 16:23 |
| Naphthalene                   | ND     | 0.0050  | 1  | 07/23/2025 16:23 |
| n-Propyl benzene              | ND     | 0.0050  | 1  | 07/23/2025 16:23 |
| Styrene                       | ND     | 0.0050  | 1  | 07/23/2025 16:23 |
| 1,1,1,2-Tetrachloroethane     | ND     | 0.0050  | 1  | 07/23/2025 16:23 |
| 1,1,2,2-Tetrachloroethane     | ND     | 0.0050  | 1  | 07/23/2025 16:23 |
| Tetrachloroethene             | ND     | 0.0050  | 1  | 07/23/2025 16:23 |
| Toluene                       | ND     | 0.0050  | 1  | 07/23/2025 16:23 |
| 1,2,3-Trichlorobenzene        | ND     | 0.0050  | 1  | 07/23/2025 16:23 |
| 1,2,4-Trichlorobenzene        | ND     | 0.0050  | 1  | 07/23/2025 16:23 |
| 1,1,1-Trichloroethane         | ND     | 0.0050  | 1  | 07/23/2025 16:23 |
| 1,1,2-Trichloroethane         | ND     | 0.0050  | 1  | 07/23/2025 16:23 |
| Trichloroethene               | ND     | 0.0050  | 1  | 07/23/2025 16:23 |
| Trichlorofluoromethane        | ND     | 0.0050  | 1  | 07/23/2025 16:23 |
| 1,2,3-Trichloropropane        | ND     | 0.00025 | 1  | 07/23/2025 16:23 |
| 1,2,4-Trimethylbenzene        | ND     | 0.0050  | 1  | 07/23/2025 16:23 |
| 1,3,5-Trimethylbenzene        | ND     | 0.0050  | 1  | 07/23/2025 16:23 |
| Vinyl Chloride                | ND     | 0.00025 | 1  | 07/23/2025 16:23 |
| m,p-Xylene                    | ND     | 0.0050  | 1  | 07/23/2025 16:23 |
| o-Xylene                      | ND     | 0.0050  | 1  | 07/23/2025 16:23 |
| Xylenes, Total                | ND     | 0.0050  | 1  | 07/23/2025 16:23 |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-03-10  | 2507B37-006A | Soil   | 07/15/2025 15:09 | GC38 07232515.D | 321695   |

| Analytes             | Result         | RL            | DE        | Date Analyzed    |
|----------------------|----------------|---------------|-----------|------------------|
| <u>Surrogates</u>    | <u>REC (%)</u> | <u>Limits</u> | <u>DE</u> |                  |
| Dibromofluoromethane | 88             | 70-140        | 1         | 07/23/2025 16:23 |
| Toluene-d8           | 108            | 70-140        | 1         | 07/23/2025 16:23 |
| 4-BFB                | 101            | 70-140        | 1         | 07/23/2025 16:23 |
| Benzene-d6           | 102            | 50-140        | 1         | 07/23/2025 16:23 |
| Ethylbenzene-d10     | 112            | 50-140        | 1         | 07/23/2025 16:23 |
| 1,2-DCB-d4           | 76             | 40-140        | 1         | 07/23/2025 16:23 |

Analyst(s): TW



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID                     | Lab ID       | Matrix  | Date Collected   |                  | Instrument      | Batch ID |
|-------------------------------|--------------|---------|------------------|------------------|-----------------|----------|
| SB-04-1                       | 2507B37-007A | Soil    | 07/16/2025 10:40 |                  | GC38 07232516.D | 321695   |
| Analytes                      | Result       | RL      | DE               | Date Analyzed    |                 |          |
| Acetone                       | ND           | 0.20    | 1                | 07/23/2025 17:01 |                 |          |
| tert-Amyl methyl ether (TAME) | ND           | 0.0050  | 1                | 07/23/2025 17:01 |                 |          |
| Benzene                       | ND           | 0.0050  | 1                | 07/23/2025 17:01 |                 |          |
| Bromobenzene                  | ND           | 0.0050  | 1                | 07/23/2025 17:01 |                 |          |
| Bromochloromethane            | ND           | 0.0050  | 1                | 07/23/2025 17:01 |                 |          |
| Bromodichloromethane          | ND           | 0.0050  | 1                | 07/23/2025 17:01 |                 |          |
| Bromoform                     | ND           | 0.0050  | 1                | 07/23/2025 17:01 |                 |          |
| Bromomethane                  | ND           | 0.0050  | 1                | 07/23/2025 17:01 |                 |          |
| 2-Butanone (MEK)              | ND           | 0.10    | 1                | 07/23/2025 17:01 |                 |          |
| t-Butyl alcohol (TBA)         | ND           | 0.050   | 1                | 07/23/2025 17:01 |                 |          |
| n-Butyl benzene               | ND           | 0.0050  | 1                | 07/23/2025 17:01 |                 |          |
| sec-Butyl benzene             | ND           | 0.0050  | 1                | 07/23/2025 17:01 |                 |          |
| tert-Butyl benzene            | ND           | 0.0050  | 1                | 07/23/2025 17:01 |                 |          |
| Carbon Disulfide              | ND           | 0.0050  | 1                | 07/23/2025 17:01 |                 |          |
| Carbon Tetrachloride          | ND           | 0.0050  | 1                | 07/23/2025 17:01 |                 |          |
| Chlorobenzene                 | ND           | 0.0050  | 1                | 07/23/2025 17:01 |                 |          |
| Chloroethane                  | ND           | 0.0050  | 1                | 07/23/2025 17:01 |                 |          |
| Chloroform                    | ND           | 0.0050  | 1                | 07/23/2025 17:01 |                 |          |
| Chloromethane                 | ND           | 0.0050  | 1                | 07/23/2025 17:01 |                 |          |
| 2-Chlorotoluene               | ND           | 0.0050  | 1                | 07/23/2025 17:01 |                 |          |
| 4-Chlorotoluene               | ND           | 0.0050  | 1                | 07/23/2025 17:01 |                 |          |
| Dibromochloromethane          | ND           | 0.0050  | 1                | 07/23/2025 17:01 |                 |          |
| 1,2-Dibromo-3-chloropropane   | ND           | 0.00050 | 1                | 07/23/2025 17:01 |                 |          |
| 1,2-Dibromoethane (EDB)       | ND           | 0.00025 | 1                | 07/23/2025 17:01 |                 |          |
| Dibromomethane                | ND           | 0.0050  | 1                | 07/23/2025 17:01 |                 |          |
| 1,2-Dichlorobenzene           | ND           | 0.0050  | 1                | 07/23/2025 17:01 |                 |          |
| 1,3-Dichlorobenzene           | ND           | 0.0050  | 1                | 07/23/2025 17:01 |                 |          |
| 1,4-Dichlorobenzene           | ND           | 0.0050  | 1                | 07/23/2025 17:01 |                 |          |
| Dichlorodifluoromethane       | ND           | 0.0050  | 1                | 07/23/2025 17:01 |                 |          |
| 1,1-Dichloroethane            | ND           | 0.0050  | 1                | 07/23/2025 17:01 |                 |          |
| 1,2-Dichloroethane (1,2-DCA)  | ND           | 0.00010 | 1                | 07/23/2025 17:01 |                 |          |
| 1,1-Dichloroethene            | ND           | 0.0050  | 1                | 07/23/2025 17:01 |                 |          |
| cis-1,2-Dichloroethene        | ND           | 0.0050  | 1                | 07/23/2025 17:01 |                 |          |
| trans-1,2-Dichloroethene      | ND           | 0.0050  | 1                | 07/23/2025 17:01 |                 |          |
| 1,2-Dichloropropane           | ND           | 0.0050  | 1                | 07/23/2025 17:01 |                 |          |
| 1,3-Dichloropropane           | ND           | 0.0050  | 1                | 07/23/2025 17:01 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-04-1   | 2507B37-007A | Soil   | 07/16/2025 10:40 | GC38 07232516.D | 321695   |

| Analytes                      | Result | RL      | DE | Date Analyzed    |
|-------------------------------|--------|---------|----|------------------|
| 2,2-Dichloropropane           | ND     | 0.0050  | 1  | 07/23/2025 17:01 |
| 1,1-Dichloropropene           | ND     | 0.0050  | 1  | 07/23/2025 17:01 |
| cis-1,3-Dichloropropene       | ND     | 0.0050  | 1  | 07/23/2025 17:01 |
| trans-1,3-Dichloropropene     | ND     | 0.0050  | 1  | 07/23/2025 17:01 |
| Diisopropyl ether (DIPE)      | ND     | 0.0050  | 1  | 07/23/2025 17:01 |
| Ethylbenzene                  | ND     | 0.0050  | 1  | 07/23/2025 17:01 |
| Ethyl tert-butyl ether (ETBE) | ND     | 0.0050  | 1  | 07/23/2025 17:01 |
| Freon 113                     | ND     | 0.0050  | 1  | 07/23/2025 17:01 |
| Hexachlorobutadiene           | ND     | 0.0050  | 1  | 07/23/2025 17:01 |
| Hexachloroethane              | ND     | 0.0050  | 1  | 07/23/2025 17:01 |
| 2-Hexanone                    | ND     | 0.0050  | 1  | 07/23/2025 17:01 |
| Isopropylbenzene              | ND     | 0.0050  | 1  | 07/23/2025 17:01 |
| 4-Isopropyl toluene           | ND     | 0.0050  | 1  | 07/23/2025 17:01 |
| Methyl-t-butyl ether (MTBE)   | ND     | 0.0050  | 1  | 07/23/2025 17:01 |
| Methylene chloride            | ND     | 0.020   | 1  | 07/23/2025 17:01 |
| 4-Methyl-2-pentanone (MIBK)   | ND     | 0.0050  | 1  | 07/23/2025 17:01 |
| Naphthalene                   | ND     | 0.0050  | 1  | 07/23/2025 17:01 |
| n-Propyl benzene              | ND     | 0.0050  | 1  | 07/23/2025 17:01 |
| Styrene                       | ND     | 0.0050  | 1  | 07/23/2025 17:01 |
| 1,1,1,2-Tetrachloroethane     | ND     | 0.0050  | 1  | 07/23/2025 17:01 |
| 1,1,2,2-Tetrachloroethane     | ND     | 0.0050  | 1  | 07/23/2025 17:01 |
| Tetrachloroethene             | ND     | 0.0050  | 1  | 07/23/2025 17:01 |
| Toluene                       | ND     | 0.0050  | 1  | 07/23/2025 17:01 |
| 1,2,3-Trichlorobenzene        | ND     | 0.0050  | 1  | 07/23/2025 17:01 |
| 1,2,4-Trichlorobenzene        | ND     | 0.0050  | 1  | 07/23/2025 17:01 |
| 1,1,1-Trichloroethane         | ND     | 0.0050  | 1  | 07/23/2025 17:01 |
| 1,1,2-Trichloroethane         | ND     | 0.0050  | 1  | 07/23/2025 17:01 |
| Trichloroethene               | ND     | 0.0050  | 1  | 07/23/2025 17:01 |
| Trichlorofluoromethane        | ND     | 0.0050  | 1  | 07/23/2025 17:01 |
| 1,2,3-Trichloropropane        | ND     | 0.00025 | 1  | 07/23/2025 17:01 |
| 1,2,4-Trimethylbenzene        | ND     | 0.0050  | 1  | 07/23/2025 17:01 |
| 1,3,5-Trimethylbenzene        | ND     | 0.0050  | 1  | 07/23/2025 17:01 |
| Vinyl Chloride                | ND     | 0.00025 | 1  | 07/23/2025 17:01 |
| m,p-Xylene                    | ND     | 0.0050  | 1  | 07/23/2025 17:01 |
| o-Xylene                      | ND     | 0.0050  | 1  | 07/23/2025 17:01 |
| Xylenes, Total                | ND     | 0.0050  | 1  | 07/23/2025 17:01 |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-04-1   | 2507B37-007A | Soil   | 07/16/2025 10:40 | GC38 07232516.D | 321695   |

| Analytes             | Result         | RL            | DE        | Date Analyzed    |
|----------------------|----------------|---------------|-----------|------------------|
| <u>Surrogates</u>    | <u>REC (%)</u> | <u>Limits</u> | <u>DE</u> |                  |
| Dibromofluoromethane | 88             | 70-140        | 1         | 07/23/2025 17:01 |
| Toluene-d8           | 109            | 70-140        | 1         | 07/23/2025 17:01 |
| 4-BFB                | 97             | 70-140        | 1         | 07/23/2025 17:01 |
| Benzene-d6           | 97             | 50-140        | 1         | 07/23/2025 17:01 |
| Ethylbenzene-d10     | 106            | 50-140        | 1         | 07/23/2025 17:01 |
| 1,2-DCB-d4           | 69             | 40-140        | 1         | 07/23/2025 17:01 |

Analyst(s): TW



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID                     | Lab ID       | Matrix  | Date Collected   |                  | Instrument      | Batch ID |
|-------------------------------|--------------|---------|------------------|------------------|-----------------|----------|
| SB-04-5                       | 2507B37-008A | Soil    | 07/16/2025 10:41 |                  | GC45 07232513.D | 321695   |
| Analytes                      | Result       | RL      | DE               | Date Analyzed    |                 |          |
| Acetone                       | ND           | 0.20    | 1                | 07/23/2025 15:52 |                 |          |
| tert-Amyl methyl ether (TAME) | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| Benzene                       | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| Bromobenzene                  | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| Bromochloromethane            | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| Bromodichloromethane          | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| Bromoform                     | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| Bromomethane                  | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| 2-Butanone (MEK)              | ND           | 0.10    | 1                | 07/23/2025 15:52 |                 |          |
| t-Butyl alcohol (TBA)         | ND           | 0.050   | 1                | 07/23/2025 15:52 |                 |          |
| n-Butyl benzene               | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| sec-Butyl benzene             | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| tert-Butyl benzene            | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| Carbon Disulfide              | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| Carbon Tetrachloride          | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| Chlorobenzene                 | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| Chloroethane                  | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| Chloroform                    | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| Chloromethane                 | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| 2-Chlorotoluene               | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| 4-Chlorotoluene               | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| Dibromochloromethane          | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| 1,2-Dibromo-3-chloropropane   | ND           | 0.00050 | 1                | 07/23/2025 15:52 |                 |          |
| 1,2-Dibromoethane (EDB)       | ND           | 0.00025 | 1                | 07/23/2025 15:52 |                 |          |
| Dibromomethane                | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| 1,2-Dichlorobenzene           | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| 1,3-Dichlorobenzene           | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| 1,4-Dichlorobenzene           | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| Dichlorodifluoromethane       | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| 1,1-Dichloroethane            | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| 1,2-Dichloroethane (1,2-DCA)  | ND           | 0.00010 | 1                | 07/23/2025 15:52 |                 |          |
| 1,1-Dichloroethene            | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| cis-1,2-Dichloroethene        | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| trans-1,2-Dichloroethene      | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| 1,2-Dichloropropane           | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| 1,3-Dichloropropane           | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID                     | Lab ID       | Matrix  | Date Collected   |                  | Instrument      | Batch ID |
|-------------------------------|--------------|---------|------------------|------------------|-----------------|----------|
| SB-04-5                       | 2507B37-008A | Soil    | 07/16/2025 10:41 |                  | GC45 07232513.D | 321695   |
| Analytes                      | Result       | RL      | DE               | Date Analyzed    |                 |          |
| 2,2-Dichloropropane           | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| 1,1-Dichloropropene           | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| cis-1,3-Dichloropropene       | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| trans-1,3-Dichloropropene     | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| Diisopropyl ether (DIPE)      | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| Ethylbenzene                  | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| Ethyl tert-butyl ether (ETBE) | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| Freon 113                     | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| Hexachlorobutadiene           | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| Hexachloroethane              | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| 2-Hexanone                    | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| Isopropylbenzene              | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| 4-Isopropyl toluene           | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| Methyl-t-butyl ether (MTBE)   | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| Methylene chloride            | ND           | 0.020   | 1                | 07/23/2025 15:52 |                 |          |
| 4-Methyl-2-pentanone (MIBK)   | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| Naphthalene                   | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| n-Propyl benzene              | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| Styrene                       | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| 1,1,1,2-Tetrachloroethane     | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| 1,1,2,2-Tetrachloroethane     | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| Tetrachloroethene             | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| Toluene                       | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| 1,2,3-Trichlorobenzene        | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| 1,2,4-Trichlorobenzene        | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| 1,1,1-Trichloroethane         | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| 1,1,2-Trichloroethane         | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| Trichloroethene               | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| Trichlorofluoromethane        | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| 1,2,3-Trichloropropane        | ND           | 0.00025 | 1                | 07/23/2025 15:52 |                 |          |
| 1,2,4-Trimethylbenzene        | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| 1,3,5-Trimethylbenzene        | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| Vinyl Chloride                | ND           | 0.00025 | 1                | 07/23/2025 15:52 |                 |          |
| m,p-Xylene                    | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| o-Xylene                      | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |
| Xylenes, Total                | ND           | 0.0050  | 1                | 07/23/2025 15:52 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-04-5   | 2507B37-008A | Soil   | 07/16/2025 10:41 | GC45 07232513.D | 321695   |

| Analytes             | Result         | RL            | DE        | Date Analyzed    |
|----------------------|----------------|---------------|-----------|------------------|
| <u>Surrogates</u>    | <u>REC (%)</u> | <u>Limits</u> | <u>DE</u> |                  |
| Dibromofluoromethane | 95             | 70-140        | 1         | 07/23/2025 15:52 |
| Toluene-d8           | 107            | 70-140        | 1         | 07/23/2025 15:52 |
| 4-BFB                | 106            | 70-140        | 1         | 07/23/2025 15:52 |
| Benzene-d6           | 105            | 50-140        | 1         | 07/23/2025 15:52 |
| Ethylbenzene-d10     | 108            | 50-140        | 1         | 07/23/2025 15:52 |
| 1,2-DCB-d4           | 79             | 40-140        | 1         | 07/23/2025 15:52 |

Analyst(s): CLO



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID                     | Lab ID       | Matrix  | Date Collected   |                  | Instrument      | Batch ID |
|-------------------------------|--------------|---------|------------------|------------------|-----------------|----------|
| SB-05-1                       | 2507B37-009A | Soil    | 07/16/2025 08:12 |                  | GC45 07232514.D | 321695   |
| Analytes                      | Result       | RL      | DE               | Date Analyzed    |                 |          |
| Acetone                       | ND           | 0.20    | 1                | 07/23/2025 16:33 |                 |          |
| tert-Amyl methyl ether (TAME) | ND           | 0.0050  | 1                | 07/23/2025 16:33 |                 |          |
| Benzene                       | ND           | 0.0050  | 1                | 07/23/2025 16:33 |                 |          |
| Bromobenzene                  | ND           | 0.0050  | 1                | 07/23/2025 16:33 |                 |          |
| Bromochloromethane            | ND           | 0.0050  | 1                | 07/23/2025 16:33 |                 |          |
| Bromodichloromethane          | ND           | 0.0050  | 1                | 07/23/2025 16:33 |                 |          |
| Bromoform                     | ND           | 0.0050  | 1                | 07/23/2025 16:33 |                 |          |
| Bromomethane                  | ND           | 0.0050  | 1                | 07/23/2025 16:33 |                 |          |
| 2-Butanone (MEK)              | ND           | 0.10    | 1                | 07/23/2025 16:33 |                 |          |
| t-Butyl alcohol (TBA)         | ND           | 0.050   | 1                | 07/23/2025 16:33 |                 |          |
| n-Butyl benzene               | ND           | 0.0050  | 1                | 07/23/2025 16:33 |                 |          |
| sec-Butyl benzene             | ND           | 0.0050  | 1                | 07/23/2025 16:33 |                 |          |
| tert-Butyl benzene            | ND           | 0.0050  | 1                | 07/23/2025 16:33 |                 |          |
| Carbon Disulfide              | ND           | 0.0050  | 1                | 07/23/2025 16:33 |                 |          |
| Carbon Tetrachloride          | ND           | 0.0050  | 1                | 07/23/2025 16:33 |                 |          |
| Chlorobenzene                 | ND           | 0.0050  | 1                | 07/23/2025 16:33 |                 |          |
| Chloroethane                  | ND           | 0.0050  | 1                | 07/23/2025 16:33 |                 |          |
| Chloroform                    | ND           | 0.0050  | 1                | 07/23/2025 16:33 |                 |          |
| Chloromethane                 | ND           | 0.0050  | 1                | 07/23/2025 16:33 |                 |          |
| 2-Chlorotoluene               | ND           | 0.0050  | 1                | 07/23/2025 16:33 |                 |          |
| 4-Chlorotoluene               | ND           | 0.0050  | 1                | 07/23/2025 16:33 |                 |          |
| Dibromochloromethane          | ND           | 0.0050  | 1                | 07/23/2025 16:33 |                 |          |
| 1,2-Dibromo-3-chloropropane   | ND           | 0.00050 | 1                | 07/23/2025 16:33 |                 |          |
| 1,2-Dibromoethane (EDB)       | ND           | 0.00025 | 1                | 07/23/2025 16:33 |                 |          |
| Dibromomethane                | ND           | 0.0050  | 1                | 07/23/2025 16:33 |                 |          |
| 1,2-Dichlorobenzene           | ND           | 0.0050  | 1                | 07/23/2025 16:33 |                 |          |
| 1,3-Dichlorobenzene           | ND           | 0.0050  | 1                | 07/23/2025 16:33 |                 |          |
| 1,4-Dichlorobenzene           | ND           | 0.0050  | 1                | 07/23/2025 16:33 |                 |          |
| Dichlorodifluoromethane       | ND           | 0.0050  | 1                | 07/23/2025 16:33 |                 |          |
| 1,1-Dichloroethane            | ND           | 0.0050  | 1                | 07/23/2025 16:33 |                 |          |
| 1,2-Dichloroethane (1,2-DCA)  | ND           | 0.00010 | 1                | 07/23/2025 16:33 |                 |          |
| 1,1-Dichloroethene            | ND           | 0.0050  | 1                | 07/23/2025 16:33 |                 |          |
| cis-1,2-Dichloroethene        | ND           | 0.0050  | 1                | 07/23/2025 16:33 |                 |          |
| trans-1,2-Dichloroethene      | ND           | 0.0050  | 1                | 07/23/2025 16:33 |                 |          |
| 1,2-Dichloropropane           | ND           | 0.0050  | 1                | 07/23/2025 16:33 |                 |          |
| 1,3-Dichloropropane           | ND           | 0.0050  | 1                | 07/23/2025 16:33 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-05-1   | 2507B37-009A | Soil   | 07/16/2025 08:12 | GC45 07232514.D | 321695   |

| Analytes                      | Result | RL      | DE | Date Analyzed    |
|-------------------------------|--------|---------|----|------------------|
| 2,2-Dichloropropane           | ND     | 0.0050  | 1  | 07/23/2025 16:33 |
| 1,1-Dichloropropene           | ND     | 0.0050  | 1  | 07/23/2025 16:33 |
| cis-1,3-Dichloropropene       | ND     | 0.0050  | 1  | 07/23/2025 16:33 |
| trans-1,3-Dichloropropene     | ND     | 0.0050  | 1  | 07/23/2025 16:33 |
| Diisopropyl ether (DIPE)      | ND     | 0.0050  | 1  | 07/23/2025 16:33 |
| Ethylbenzene                  | ND     | 0.0050  | 1  | 07/23/2025 16:33 |
| Ethyl tert-butyl ether (ETBE) | ND     | 0.0050  | 1  | 07/23/2025 16:33 |
| Freon 113                     | ND     | 0.0050  | 1  | 07/23/2025 16:33 |
| Hexachlorobutadiene           | ND     | 0.0050  | 1  | 07/23/2025 16:33 |
| Hexachloroethane              | ND     | 0.0050  | 1  | 07/23/2025 16:33 |
| 2-Hexanone                    | ND     | 0.0050  | 1  | 07/23/2025 16:33 |
| Isopropylbenzene              | ND     | 0.0050  | 1  | 07/23/2025 16:33 |
| 4-Isopropyl toluene           | ND     | 0.0050  | 1  | 07/23/2025 16:33 |
| Methyl-t-butyl ether (MTBE)   | ND     | 0.0050  | 1  | 07/23/2025 16:33 |
| Methylene chloride            | ND     | 0.020   | 1  | 07/23/2025 16:33 |
| 4-Methyl-2-pentanone (MIBK)   | ND     | 0.0050  | 1  | 07/23/2025 16:33 |
| Naphthalene                   | ND     | 0.0050  | 1  | 07/23/2025 16:33 |
| n-Propyl benzene              | ND     | 0.0050  | 1  | 07/23/2025 16:33 |
| Styrene                       | ND     | 0.0050  | 1  | 07/23/2025 16:33 |
| 1,1,1,2-Tetrachloroethane     | ND     | 0.0050  | 1  | 07/23/2025 16:33 |
| 1,1,2,2-Tetrachloroethane     | ND     | 0.0050  | 1  | 07/23/2025 16:33 |
| Tetrachloroethene             | ND     | 0.0050  | 1  | 07/23/2025 16:33 |
| Toluene                       | ND     | 0.0050  | 1  | 07/23/2025 16:33 |
| 1,2,3-Trichlorobenzene        | ND     | 0.0050  | 1  | 07/23/2025 16:33 |
| 1,2,4-Trichlorobenzene        | ND     | 0.0050  | 1  | 07/23/2025 16:33 |
| 1,1,1-Trichloroethane         | ND     | 0.0050  | 1  | 07/23/2025 16:33 |
| 1,1,2-Trichloroethane         | ND     | 0.0050  | 1  | 07/23/2025 16:33 |
| Trichloroethene               | ND     | 0.0050  | 1  | 07/23/2025 16:33 |
| Trichlorofluoromethane        | ND     | 0.0050  | 1  | 07/23/2025 16:33 |
| 1,2,3-Trichloropropane        | ND     | 0.00025 | 1  | 07/23/2025 16:33 |
| 1,2,4-Trimethylbenzene        | ND     | 0.0050  | 1  | 07/23/2025 16:33 |
| 1,3,5-Trimethylbenzene        | ND     | 0.0050  | 1  | 07/23/2025 16:33 |
| Vinyl Chloride                | ND     | 0.00025 | 1  | 07/23/2025 16:33 |
| m,p-Xylene                    | ND     | 0.0050  | 1  | 07/23/2025 16:33 |
| o-Xylene                      | ND     | 0.0050  | 1  | 07/23/2025 16:33 |
| Xylenes, Total                | ND     | 0.0050  | 1  | 07/23/2025 16:33 |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-05-1   | 2507B37-009A | Soil   | 07/16/2025 08:12 | GC45 07232514.D | 321695   |

| Analytes             | Result         | RL            | DE        | Date Analyzed    |
|----------------------|----------------|---------------|-----------|------------------|
| <u>Surrogates</u>    | <u>REC (%)</u> | <u>Limits</u> | <u>DE</u> |                  |
| Dibromofluoromethane | 96             | 70-140        | 1         | 07/23/2025 16:33 |
| Toluene-d8           | 107            | 70-140        | 1         | 07/23/2025 16:33 |
| 4-BFB                | 105            | 70-140        | 1         | 07/23/2025 16:33 |
| Benzene-d6           | 111            | 50-140        | 1         | 07/23/2025 16:33 |
| Ethylbenzene-d10     | 114            | 50-140        | 1         | 07/23/2025 16:33 |
| 1,2-DCB-d4           | 83             | 40-140        | 1         | 07/23/2025 16:33 |

Analyst(s): EVA



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID                     | Lab ID       | Matrix  | Date Collected   |                  | Instrument      | Batch ID |
|-------------------------------|--------------|---------|------------------|------------------|-----------------|----------|
| SB-05-5                       | 2507B37-010A | Soil    | 07/16/2025 08:25 |                  | GC45 07232515.D | 321695   |
| Analytes                      | Result       | RL      | DE               | Date Analyzed    |                 |          |
| Acetone                       | ND           | 0.20    | 1                | 07/23/2025 17:14 |                 |          |
| tert-Amyl methyl ether (TAME) | ND           | 0.0050  | 1                | 07/23/2025 17:14 |                 |          |
| Benzene                       | ND           | 0.0050  | 1                | 07/23/2025 17:14 |                 |          |
| Bromobenzene                  | ND           | 0.0050  | 1                | 07/23/2025 17:14 |                 |          |
| Bromochloromethane            | ND           | 0.0050  | 1                | 07/23/2025 17:14 |                 |          |
| Bromodichloromethane          | ND           | 0.0050  | 1                | 07/23/2025 17:14 |                 |          |
| Bromoform                     | ND           | 0.0050  | 1                | 07/23/2025 17:14 |                 |          |
| Bromomethane                  | ND           | 0.0050  | 1                | 07/23/2025 17:14 |                 |          |
| 2-Butanone (MEK)              | ND           | 0.10    | 1                | 07/23/2025 17:14 |                 |          |
| t-Butyl alcohol (TBA)         | ND           | 0.050   | 1                | 07/23/2025 17:14 |                 |          |
| n-Butyl benzene               | ND           | 0.0050  | 1                | 07/23/2025 17:14 |                 |          |
| sec-Butyl benzene             | ND           | 0.0050  | 1                | 07/23/2025 17:14 |                 |          |
| tert-Butyl benzene            | ND           | 0.0050  | 1                | 07/23/2025 17:14 |                 |          |
| Carbon Disulfide              | ND           | 0.0050  | 1                | 07/23/2025 17:14 |                 |          |
| Carbon Tetrachloride          | ND           | 0.0050  | 1                | 07/23/2025 17:14 |                 |          |
| Chlorobenzene                 | ND           | 0.0050  | 1                | 07/23/2025 17:14 |                 |          |
| Chloroethane                  | ND           | 0.0050  | 1                | 07/23/2025 17:14 |                 |          |
| Chloroform                    | ND           | 0.0050  | 1                | 07/23/2025 17:14 |                 |          |
| Chloromethane                 | ND           | 0.0050  | 1                | 07/23/2025 17:14 |                 |          |
| 2-Chlorotoluene               | ND           | 0.0050  | 1                | 07/23/2025 17:14 |                 |          |
| 4-Chlorotoluene               | ND           | 0.0050  | 1                | 07/23/2025 17:14 |                 |          |
| Dibromochloromethane          | ND           | 0.0050  | 1                | 07/23/2025 17:14 |                 |          |
| 1,2-Dibromo-3-chloropropane   | ND           | 0.00050 | 1                | 07/23/2025 17:14 |                 |          |
| 1,2-Dibromoethane (EDB)       | ND           | 0.00025 | 1                | 07/23/2025 17:14 |                 |          |
| Dibromomethane                | ND           | 0.0050  | 1                | 07/23/2025 17:14 |                 |          |
| 1,2-Dichlorobenzene           | ND           | 0.0050  | 1                | 07/23/2025 17:14 |                 |          |
| 1,3-Dichlorobenzene           | ND           | 0.0050  | 1                | 07/23/2025 17:14 |                 |          |
| 1,4-Dichlorobenzene           | ND           | 0.0050  | 1                | 07/23/2025 17:14 |                 |          |
| Dichlorodifluoromethane       | ND           | 0.0050  | 1                | 07/23/2025 17:14 |                 |          |
| 1,1-Dichloroethane            | ND           | 0.0050  | 1                | 07/23/2025 17:14 |                 |          |
| 1,2-Dichloroethane (1,2-DCA)  | ND           | 0.00010 | 1                | 07/23/2025 17:14 |                 |          |
| 1,1-Dichloroethene            | ND           | 0.0050  | 1                | 07/23/2025 17:14 |                 |          |
| cis-1,2-Dichloroethene        | ND           | 0.0050  | 1                | 07/23/2025 17:14 |                 |          |
| trans-1,2-Dichloroethene      | ND           | 0.0050  | 1                | 07/23/2025 17:14 |                 |          |
| 1,2-Dichloropropane           | ND           | 0.0050  | 1                | 07/23/2025 17:14 |                 |          |
| 1,3-Dichloropropane           | ND           | 0.0050  | 1                | 07/23/2025 17:14 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-05-5   | 2507B37-010A | Soil   | 07/16/2025 08:25 | GC45 07232515.D | 321695   |

| Analytes                      | Result | RL      | DE | Date Analyzed    |
|-------------------------------|--------|---------|----|------------------|
| 2,2-Dichloropropane           | ND     | 0.0050  | 1  | 07/23/2025 17:14 |
| 1,1-Dichloropropene           | ND     | 0.0050  | 1  | 07/23/2025 17:14 |
| cis-1,3-Dichloropropene       | ND     | 0.0050  | 1  | 07/23/2025 17:14 |
| trans-1,3-Dichloropropene     | ND     | 0.0050  | 1  | 07/23/2025 17:14 |
| Diisopropyl ether (DIPE)      | ND     | 0.0050  | 1  | 07/23/2025 17:14 |
| Ethylbenzene                  | ND     | 0.0050  | 1  | 07/23/2025 17:14 |
| Ethyl tert-butyl ether (ETBE) | ND     | 0.0050  | 1  | 07/23/2025 17:14 |
| Freon 113                     | ND     | 0.0050  | 1  | 07/23/2025 17:14 |
| Hexachlorobutadiene           | ND     | 0.0050  | 1  | 07/23/2025 17:14 |
| Hexachloroethane              | ND     | 0.0050  | 1  | 07/23/2025 17:14 |
| 2-Hexanone                    | ND     | 0.0050  | 1  | 07/23/2025 17:14 |
| Isopropylbenzene              | ND     | 0.0050  | 1  | 07/23/2025 17:14 |
| 4-Isopropyl toluene           | ND     | 0.0050  | 1  | 07/23/2025 17:14 |
| Methyl-t-butyl ether (MTBE)   | ND     | 0.0050  | 1  | 07/23/2025 17:14 |
| Methylene chloride            | ND     | 0.020   | 1  | 07/23/2025 17:14 |
| 4-Methyl-2-pentanone (MIBK)   | ND     | 0.0050  | 1  | 07/23/2025 17:14 |
| Naphthalene                   | ND     | 0.0050  | 1  | 07/23/2025 17:14 |
| n-Propyl benzene              | ND     | 0.0050  | 1  | 07/23/2025 17:14 |
| Styrene                       | ND     | 0.0050  | 1  | 07/23/2025 17:14 |
| 1,1,1,2-Tetrachloroethane     | ND     | 0.0050  | 1  | 07/23/2025 17:14 |
| 1,1,2,2-Tetrachloroethane     | ND     | 0.0050  | 1  | 07/23/2025 17:14 |
| Tetrachloroethene             | ND     | 0.0050  | 1  | 07/23/2025 17:14 |
| Toluene                       | ND     | 0.0050  | 1  | 07/23/2025 17:14 |
| 1,2,3-Trichlorobenzene        | ND     | 0.0050  | 1  | 07/23/2025 17:14 |
| 1,2,4-Trichlorobenzene        | ND     | 0.0050  | 1  | 07/23/2025 17:14 |
| 1,1,1-Trichloroethane         | ND     | 0.0050  | 1  | 07/23/2025 17:14 |
| 1,1,2-Trichloroethane         | ND     | 0.0050  | 1  | 07/23/2025 17:14 |
| Trichloroethene               | ND     | 0.0050  | 1  | 07/23/2025 17:14 |
| Trichlorofluoromethane        | ND     | 0.0050  | 1  | 07/23/2025 17:14 |
| 1,2,3-Trichloropropane        | ND     | 0.00025 | 1  | 07/23/2025 17:14 |
| 1,2,4-Trimethylbenzene        | ND     | 0.0050  | 1  | 07/23/2025 17:14 |
| 1,3,5-Trimethylbenzene        | ND     | 0.0050  | 1  | 07/23/2025 17:14 |
| Vinyl Chloride                | ND     | 0.00025 | 1  | 07/23/2025 17:14 |
| m,p-Xylene                    | ND     | 0.0050  | 1  | 07/23/2025 17:14 |
| o-Xylene                      | ND     | 0.0050  | 1  | 07/23/2025 17:14 |
| Xylenes, Total                | ND     | 0.0050  | 1  | 07/23/2025 17:14 |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-05-5   | 2507B37-010A | Soil   | 07/16/2025 08:25 | GC45 07232515.D | 321695   |

|                 |               |           |           |                      |
|-----------------|---------------|-----------|-----------|----------------------|
| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>DE</u> | <u>Date Analyzed</u> |
|-----------------|---------------|-----------|-----------|----------------------|

|                      |                |               |           |                  |
|----------------------|----------------|---------------|-----------|------------------|
| <u>Surrogates</u>    | <u>REC (%)</u> | <u>Limits</u> | <u>DE</u> |                  |
| Dibromofluoromethane | 96             | 70-140        | 1         | 07/23/2025 17:14 |
| Toluene-d8           | 107            | 70-140        | 1         | 07/23/2025 17:14 |
| 4-BFB                | 103            | 70-140        | 1         | 07/23/2025 17:14 |
| Benzene-d6           | 108            | 50-140        | 1         | 07/23/2025 17:14 |
| Ethylbenzene-d10     | 112            | 50-140        | 1         | 07/23/2025 17:14 |
| 1,2-DCB-d4           | 81             | 40-140        | 1         | 07/23/2025 17:14 |

Analyst(s): EVA



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID                     | Lab ID       | Matrix  | Date Collected   |                  | Instrument      | Batch ID |
|-------------------------------|--------------|---------|------------------|------------------|-----------------|----------|
| SB-06-1.5                     | 2507B37-011A | Soil    | 07/16/2025 14:00 |                  | GC45 07232516.D | 321695   |
| Analytes                      | Result       | RL      | DE               | Date Analyzed    |                 |          |
| Acetone                       | ND           | 0.20    | 1                | 07/23/2025 17:54 |                 |          |
| tert-Amyl methyl ether (TAME) | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| Benzene                       | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| Bromobenzene                  | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| Bromochloromethane            | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| Bromodichloromethane          | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| Bromoform                     | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| Bromomethane                  | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| 2-Butanone (MEK)              | ND           | 0.10    | 1                | 07/23/2025 17:54 |                 |          |
| t-Butyl alcohol (TBA)         | ND           | 0.050   | 1                | 07/23/2025 17:54 |                 |          |
| n-Butyl benzene               | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| sec-Butyl benzene             | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| tert-Butyl benzene            | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| Carbon Disulfide              | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| Carbon Tetrachloride          | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| Chlorobenzene                 | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| Chloroethane                  | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| Chloroform                    | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| Chloromethane                 | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| 2-Chlorotoluene               | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| 4-Chlorotoluene               | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| Dibromochloromethane          | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| 1,2-Dibromo-3-chloropropane   | ND           | 0.00050 | 1                | 07/23/2025 17:54 |                 |          |
| 1,2-Dibromoethane (EDB)       | ND           | 0.00025 | 1                | 07/23/2025 17:54 |                 |          |
| Dibromomethane                | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| 1,2-Dichlorobenzene           | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| 1,3-Dichlorobenzene           | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| 1,4-Dichlorobenzene           | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| Dichlorodifluoromethane       | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| 1,1-Dichloroethane            | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| 1,2-Dichloroethane (1,2-DCA)  | ND           | 0.00010 | 1                | 07/23/2025 17:54 |                 |          |
| 1,1-Dichloroethene            | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| cis-1,2-Dichloroethene        | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| trans-1,2-Dichloroethene      | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| 1,2-Dichloropropane           | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| 1,3-Dichloropropane           | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |

(Cont.)



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID                     | Lab ID       | Matrix  | Date Collected   |                  | Instrument      | Batch ID |
|-------------------------------|--------------|---------|------------------|------------------|-----------------|----------|
| SB-06-1.5                     | 2507B37-011A | Soil    | 07/16/2025 14:00 |                  | GC45 07232516.D | 321695   |
| Analytes                      | Result       | RL      | DE               | Date Analyzed    |                 |          |
| 2,2-Dichloropropane           | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| 1,1-Dichloropropene           | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| cis-1,3-Dichloropropene       | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| trans-1,3-Dichloropropene     | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| Diisopropyl ether (DIPE)      | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| Ethylbenzene                  | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| Ethyl tert-butyl ether (ETBE) | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| Freon 113                     | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| Hexachlorobutadiene           | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| Hexachloroethane              | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| 2-Hexanone                    | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| Isopropylbenzene              | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| 4-Isopropyl toluene           | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| Methyl-t-butyl ether (MTBE)   | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| Methylene chloride            | ND           | 0.020   | 1                | 07/23/2025 17:54 |                 |          |
| 4-Methyl-2-pentanone (MIBK)   | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| Naphthalene                   | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| n-Propyl benzene              | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| Styrene                       | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| 1,1,1,2-Tetrachloroethane     | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| 1,1,2,2-Tetrachloroethane     | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| Tetrachloroethene             | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| Toluene                       | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| 1,2,3-Trichlorobenzene        | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| 1,2,4-Trichlorobenzene        | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| 1,1,1-Trichloroethane         | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| 1,1,2-Trichloroethane         | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| Trichloroethene               | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| Trichlorofluoromethane        | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| 1,2,3-Trichloropropane        | ND           | 0.00025 | 1                | 07/23/2025 17:54 |                 |          |
| 1,2,4-Trimethylbenzene        | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| 1,3,5-Trimethylbenzene        | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| Vinyl Chloride                | ND           | 0.00025 | 1                | 07/23/2025 17:54 |                 |          |
| m,p-Xylene                    | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| o-Xylene                      | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |
| Xylenes, Total                | ND           | 0.0050  | 1                | 07/23/2025 17:54 |                 |          |

(Cont.)



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-06-1.5 | 2507B37-011A | Soil   | 07/16/2025 14:00 | GC45 07232516.D | 321695   |

| Analytes             | Result         | RL            | DE        | Date Analyzed    |
|----------------------|----------------|---------------|-----------|------------------|
| <u>Surrogates</u>    | <u>REC (%)</u> | <u>Limits</u> | <u>DE</u> |                  |
| Dibromofluoromethane | 97             | 70-140        | 1         | 07/23/2025 17:54 |
| Toluene-d8           | 107            | 70-140        | 1         | 07/23/2025 17:54 |
| 4-BFB                | 105            | 70-140        | 1         | 07/23/2025 17:54 |
| Benzene-d6           | 111            | 50-140        | 1         | 07/23/2025 17:54 |
| Ethylbenzene-d10     | 114            | 50-140        | 1         | 07/23/2025 17:54 |
| 1,2-DCB-d4           | 81             | 40-140        | 1         | 07/23/2025 17:54 |

Analyst(s): EVA





## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID                     | Lab ID       | Matrix  | Date Collected   |                  | Instrument      | Batch ID |
|-------------------------------|--------------|---------|------------------|------------------|-----------------|----------|
| SB-06-5                       | 2507B37-012A | Soil    | 07/16/2025 13:57 |                  | GC45 07232517.D | 321695   |
| Analytes                      | Result       | RL      | DE               | Date Analyzed    |                 |          |
| Acetone                       | ND           | 0.20    | 1                | 07/23/2025 18:35 |                 |          |
| tert-Amyl methyl ether (TAME) | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| Benzene                       | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| Bromobenzene                  | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| Bromochloromethane            | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| Bromodichloromethane          | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| Bromoform                     | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| Bromomethane                  | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| 2-Butanone (MEK)              | ND           | 0.10    | 1                | 07/23/2025 18:35 |                 |          |
| t-Butyl alcohol (TBA)         | ND           | 0.050   | 1                | 07/23/2025 18:35 |                 |          |
| n-Butyl benzene               | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| sec-Butyl benzene             | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| tert-Butyl benzene            | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| Carbon Disulfide              | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| Carbon Tetrachloride          | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| Chlorobenzene                 | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| Chloroethane                  | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| Chloroform                    | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| Chloromethane                 | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| 2-Chlorotoluene               | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| 4-Chlorotoluene               | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| Dibromochloromethane          | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| 1,2-Dibromo-3-chloropropane   | ND           | 0.00050 | 1                | 07/23/2025 18:35 |                 |          |
| 1,2-Dibromoethane (EDB)       | ND           | 0.00025 | 1                | 07/23/2025 18:35 |                 |          |
| Dibromomethane                | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| 1,2-Dichlorobenzene           | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| 1,3-Dichlorobenzene           | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| 1,4-Dichlorobenzene           | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| Dichlorodifluoromethane       | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| 1,1-Dichloroethane            | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| 1,2-Dichloroethane (1,2-DCA)  | ND           | 0.00010 | 1                | 07/23/2025 18:35 |                 |          |
| 1,1-Dichloroethene            | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| cis-1,2-Dichloroethene        | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| trans-1,2-Dichloroethene      | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| 1,2-Dichloropropane           | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| 1,3-Dichloropropane           | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID                     | Lab ID       | Matrix  | Date Collected   |                  | Instrument      | Batch ID |
|-------------------------------|--------------|---------|------------------|------------------|-----------------|----------|
| SB-06-5                       | 2507B37-012A | Soil    | 07/16/2025 13:57 |                  | GC45 07232517.D | 321695   |
| Analytes                      | Result       | RL      | DE               | Date Analyzed    |                 |          |
| 2,2-Dichloropropane           | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| 1,1-Dichloropropene           | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| cis-1,3-Dichloropropene       | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| trans-1,3-Dichloropropene     | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| Diisopropyl ether (DIPE)      | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| Ethylbenzene                  | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| Ethyl tert-butyl ether (ETBE) | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| Freon 113                     | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| Hexachlorobutadiene           | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| Hexachloroethane              | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| 2-Hexanone                    | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| Isopropylbenzene              | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| 4-Isopropyl toluene           | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| Methyl-t-butyl ether (MTBE)   | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| Methylene chloride            | ND           | 0.020   | 1                | 07/23/2025 18:35 |                 |          |
| 4-Methyl-2-pentanone (MIBK)   | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| Naphthalene                   | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| n-Propyl benzene              | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| Styrene                       | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| 1,1,1,2-Tetrachloroethane     | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| 1,1,2,2-Tetrachloroethane     | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| Tetrachloroethene             | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| Toluene                       | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| 1,2,3-Trichlorobenzene        | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| 1,2,4-Trichlorobenzene        | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| 1,1,1-Trichloroethane         | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| 1,1,2-Trichloroethane         | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| Trichloroethene               | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| Trichlorofluoromethane        | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| 1,2,3-Trichloropropane        | ND           | 0.00025 | 1                | 07/23/2025 18:35 |                 |          |
| 1,2,4-Trimethylbenzene        | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| 1,3,5-Trimethylbenzene        | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| Vinyl Chloride                | ND           | 0.00025 | 1                | 07/23/2025 18:35 |                 |          |
| m,p-Xylene                    | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| o-Xylene                      | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |
| Xylenes, Total                | ND           | 0.0050  | 1                | 07/23/2025 18:35 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-06-5   | 2507B37-012A | Soil   | 07/16/2025 13:57 | GC45 07232517.D | 321695   |

| Analytes             | Result         | RL            | DE        | Date Analyzed    |
|----------------------|----------------|---------------|-----------|------------------|
| <u>Surrogates</u>    | <u>REC (%)</u> | <u>Limits</u> | <u>DE</u> |                  |
| Dibromofluoromethane | 95             | 70-140        | 1         | 07/23/2025 18:35 |
| Toluene-d8           | 108            | 70-140        | 1         | 07/23/2025 18:35 |
| 4-BFB                | 101            | 70-140        | 1         | 07/23/2025 18:35 |
| Benzene-d6           | 110            | 50-140        | 1         | 07/23/2025 18:35 |
| Ethylbenzene-d10     | 115            | 50-140        | 1         | 07/23/2025 18:35 |
| 1,2-DCB-d4           | 85             | 40-140        | 1         | 07/23/2025 18:35 |

Analyst(s): EVA



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID                     | Lab ID       | Matrix  | Date Collected   |                  | Instrument      | Batch ID |
|-------------------------------|--------------|---------|------------------|------------------|-----------------|----------|
| SB-07-1                       | 2507B37-013A | Soil    | 07/16/2025 13:25 |                  | GC45 07232521.D | 321695   |
| Analytes                      | Result       | RL      | DE               | Date Analyzed    |                 |          |
| Acetone                       | ND           | 0.20    | 1                | 07/23/2025 21:17 |                 |          |
| tert-Amyl methyl ether (TAME) | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| Benzene                       | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| Bromobenzene                  | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| Bromochloromethane            | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| Bromodichloromethane          | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| Bromoform                     | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| Bromomethane                  | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| 2-Butanone (MEK)              | ND           | 0.10    | 1                | 07/23/2025 21:17 |                 |          |
| t-Butyl alcohol (TBA)         | ND           | 0.050   | 1                | 07/23/2025 21:17 |                 |          |
| n-Butyl benzene               | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| sec-Butyl benzene             | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| tert-Butyl benzene            | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| Carbon Disulfide              | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| Carbon Tetrachloride          | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| Chlorobenzene                 | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| Chloroethane                  | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| Chloroform                    | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| Chloromethane                 | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| 2-Chlorotoluene               | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| 4-Chlorotoluene               | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| Dibromochloromethane          | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| 1,2-Dibromo-3-chloropropane   | ND           | 0.00050 | 1                | 07/23/2025 21:17 |                 |          |
| 1,2-Dibromoethane (EDB)       | ND           | 0.00025 | 1                | 07/23/2025 21:17 |                 |          |
| Dibromomethane                | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| 1,2-Dichlorobenzene           | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| 1,3-Dichlorobenzene           | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| 1,4-Dichlorobenzene           | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| Dichlorodifluoromethane       | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| 1,1-Dichloroethane            | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| 1,2-Dichloroethane (1,2-DCA)  | ND           | 0.00010 | 1                | 07/23/2025 21:17 |                 |          |
| 1,1-Dichloroethene            | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| cis-1,2-Dichloroethene        | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| trans-1,2-Dichloroethene      | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| 1,2-Dichloropropane           | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| 1,3-Dichloropropane           | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID                     | Lab ID       | Matrix  | Date Collected   |                  | Instrument      | Batch ID |
|-------------------------------|--------------|---------|------------------|------------------|-----------------|----------|
| SB-07-1                       | 2507B37-013A | Soil    | 07/16/2025 13:25 |                  | GC45 07232521.D | 321695   |
| Analytes                      | Result       | RL      | DE               | Date Analyzed    |                 |          |
| 2,2-Dichloropropane           | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| 1,1-Dichloropropene           | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| cis-1,3-Dichloropropene       | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| trans-1,3-Dichloropropene     | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| Diisopropyl ether (DIPE)      | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| Ethylbenzene                  | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| Ethyl tert-butyl ether (ETBE) | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| Freon 113                     | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| Hexachlorobutadiene           | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| Hexachloroethane              | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| 2-Hexanone                    | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| Isopropylbenzene              | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| 4-Isopropyl toluene           | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| Methyl-t-butyl ether (MTBE)   | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| Methylene chloride            | ND           | 0.020   | 1                | 07/23/2025 21:17 |                 |          |
| 4-Methyl-2-pentanone (MIBK)   | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| Naphthalene                   | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| n-Propyl benzene              | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| Styrene                       | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| 1,1,1,2-Tetrachloroethane     | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| 1,1,2,2-Tetrachloroethane     | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| Tetrachloroethene             | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| Toluene                       | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| 1,2,3-Trichlorobenzene        | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| 1,2,4-Trichlorobenzene        | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| 1,1,1-Trichloroethane         | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| 1,1,2-Trichloroethane         | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| Trichloroethene               | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| Trichlorofluoromethane        | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| 1,2,3-Trichloropropane        | ND           | 0.00025 | 1                | 07/23/2025 21:17 |                 |          |
| 1,2,4-Trimethylbenzene        | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| 1,3,5-Trimethylbenzene        | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| Vinyl Chloride                | ND           | 0.00025 | 1                | 07/23/2025 21:17 |                 |          |
| m,p-Xylene                    | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| o-Xylene                      | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |
| Xylenes, Total                | ND           | 0.0050  | 1                | 07/23/2025 21:17 |                 |          |

(Cont.)



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-07-1   | 2507B37-013A | Soil   | 07/16/2025 13:25 | GC45 07232521.D | 321695   |

| Analytes             | Result         | RL            | DE        | Date Analyzed    |
|----------------------|----------------|---------------|-----------|------------------|
| <u>Surrogates</u>    | <u>REC (%)</u> | <u>Limits</u> | <u>DE</u> |                  |
| Dibromofluoromethane | 96             | 70-140        | 1         | 07/23/2025 21:17 |
| Toluene-d8           | 108            | 70-140        | 1         | 07/23/2025 21:17 |
| 4-BFB                | 104            | 70-140        | 1         | 07/23/2025 21:17 |
| Benzene-d6           | 107            | 50-140        | 1         | 07/23/2025 21:17 |
| Ethylbenzene-d10     | 112            | 50-140        | 1         | 07/23/2025 21:17 |
| 1,2-DCB-d4           | 80             | 40-140        | 1         | 07/23/2025 21:17 |

Analyst(s): EVA



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-07-5   | 2507B37-014A | Soil   | 07/16/2025 13:23 | GC45 07232522.D | 321695   |

| Analytes                      | Result | RL      | DE | Date Analyzed    |
|-------------------------------|--------|---------|----|------------------|
| Acetone                       | ND     | 0.20    | 1  | 07/23/2025 21:58 |
| tert-Amyl methyl ether (TAME) | ND     | 0.0050  | 1  | 07/23/2025 21:58 |
| Benzene                       | ND     | 0.0050  | 1  | 07/23/2025 21:58 |
| Bromobenzene                  | ND     | 0.0050  | 1  | 07/23/2025 21:58 |
| Bromochloromethane            | ND     | 0.0050  | 1  | 07/23/2025 21:58 |
| Bromodichloromethane          | ND     | 0.0050  | 1  | 07/23/2025 21:58 |
| Bromoform                     | ND     | 0.0050  | 1  | 07/23/2025 21:58 |
| Bromomethane                  | ND     | 0.0050  | 1  | 07/23/2025 21:58 |
| 2-Butanone (MEK)              | ND     | 0.10    | 1  | 07/23/2025 21:58 |
| t-Butyl alcohol (TBA)         | ND     | 0.050   | 1  | 07/23/2025 21:58 |
| n-Butyl benzene               | ND     | 0.0050  | 1  | 07/23/2025 21:58 |
| sec-Butyl benzene             | ND     | 0.0050  | 1  | 07/23/2025 21:58 |
| tert-Butyl benzene            | ND     | 0.0050  | 1  | 07/23/2025 21:58 |
| Carbon Disulfide              | ND     | 0.0050  | 1  | 07/23/2025 21:58 |
| Carbon Tetrachloride          | ND     | 0.0050  | 1  | 07/23/2025 21:58 |
| Chlorobenzene                 | ND     | 0.0050  | 1  | 07/23/2025 21:58 |
| Chloroethane                  | ND     | 0.0050  | 1  | 07/23/2025 21:58 |
| Chloroform                    | ND     | 0.0050  | 1  | 07/23/2025 21:58 |
| Chloromethane                 | ND     | 0.0050  | 1  | 07/23/2025 21:58 |
| 2-Chlorotoluene               | ND     | 0.0050  | 1  | 07/23/2025 21:58 |
| 4-Chlorotoluene               | ND     | 0.0050  | 1  | 07/23/2025 21:58 |
| Dibromochloromethane          | ND     | 0.0050  | 1  | 07/23/2025 21:58 |
| 1,2-Dibromo-3-chloropropane   | ND     | 0.00050 | 1  | 07/23/2025 21:58 |
| 1,2-Dibromoethane (EDB)       | ND     | 0.00025 | 1  | 07/23/2025 21:58 |
| Dibromomethane                | ND     | 0.0050  | 1  | 07/23/2025 21:58 |
| 1,2-Dichlorobenzene           | ND     | 0.0050  | 1  | 07/23/2025 21:58 |
| 1,3-Dichlorobenzene           | ND     | 0.0050  | 1  | 07/23/2025 21:58 |
| 1,4-Dichlorobenzene           | ND     | 0.0050  | 1  | 07/23/2025 21:58 |
| Dichlorodifluoromethane       | ND     | 0.0050  | 1  | 07/23/2025 21:58 |
| 1,1-Dichloroethane            | ND     | 0.0050  | 1  | 07/23/2025 21:58 |
| 1,2-Dichloroethane (1,2-DCA)  | ND     | 0.00010 | 1  | 07/23/2025 21:58 |
| 1,1-Dichloroethene            | ND     | 0.0050  | 1  | 07/23/2025 21:58 |
| cis-1,2-Dichloroethene        | ND     | 0.0050  | 1  | 07/23/2025 21:58 |
| trans-1,2-Dichloroethene      | ND     | 0.0050  | 1  | 07/23/2025 21:58 |
| 1,2-Dichloropropane           | ND     | 0.0050  | 1  | 07/23/2025 21:58 |
| 1,3-Dichloropropane           | ND     | 0.0050  | 1  | 07/23/2025 21:58 |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID                     | Lab ID       | Matrix  | Date Collected   |                  | Instrument      | Batch ID |
|-------------------------------|--------------|---------|------------------|------------------|-----------------|----------|
| SB-07-5                       | 2507B37-014A | Soil    | 07/16/2025 13:23 |                  | GC45 07232522.D | 321695   |
| Analytes                      | Result       | RL      | DE               | Date Analyzed    |                 |          |
| 2,2-Dichloropropane           | ND           | 0.0050  | 1                | 07/23/2025 21:58 |                 |          |
| 1,1-Dichloropropene           | ND           | 0.0050  | 1                | 07/23/2025 21:58 |                 |          |
| cis-1,3-Dichloropropene       | ND           | 0.0050  | 1                | 07/23/2025 21:58 |                 |          |
| trans-1,3-Dichloropropene     | ND           | 0.0050  | 1                | 07/23/2025 21:58 |                 |          |
| Diisopropyl ether (DIPE)      | ND           | 0.0050  | 1                | 07/23/2025 21:58 |                 |          |
| Ethylbenzene                  | ND           | 0.0050  | 1                | 07/23/2025 21:58 |                 |          |
| Ethyl tert-butyl ether (ETBE) | ND           | 0.0050  | 1                | 07/23/2025 21:58 |                 |          |
| Freon 113                     | ND           | 0.0050  | 1                | 07/23/2025 21:58 |                 |          |
| Hexachlorobutadiene           | ND           | 0.0050  | 1                | 07/23/2025 21:58 |                 |          |
| Hexachloroethane              | ND           | 0.0050  | 1                | 07/23/2025 21:58 |                 |          |
| 2-Hexanone                    | ND           | 0.0050  | 1                | 07/23/2025 21:58 |                 |          |
| Isopropylbenzene              | ND           | 0.0050  | 1                | 07/23/2025 21:58 |                 |          |
| 4-Isopropyl toluene           | ND           | 0.0050  | 1                | 07/23/2025 21:58 |                 |          |
| Methyl-t-butyl ether (MTBE)   | ND           | 0.0050  | 1                | 07/23/2025 21:58 |                 |          |
| Methylene chloride            | ND           | 0.020   | 1                | 07/23/2025 21:58 |                 |          |
| 4-Methyl-2-pentanone (MIBK)   | ND           | 0.0050  | 1                | 07/23/2025 21:58 |                 |          |
| Naphthalene                   | ND           | 0.0050  | 1                | 07/23/2025 21:58 |                 |          |
| n-Propyl benzene              | ND           | 0.0050  | 1                | 07/23/2025 21:58 |                 |          |
| Styrene                       | ND           | 0.0050  | 1                | 07/23/2025 21:58 |                 |          |
| 1,1,1,2-Tetrachloroethane     | ND           | 0.0050  | 1                | 07/23/2025 21:58 |                 |          |
| 1,1,2,2-Tetrachloroethane     | ND           | 0.0050  | 1                | 07/23/2025 21:58 |                 |          |
| Tetrachloroethene             | ND           | 0.0050  | 1                | 07/23/2025 21:58 |                 |          |
| Toluene                       | ND           | 0.0050  | 1                | 07/23/2025 21:58 |                 |          |
| 1,2,3-Trichlorobenzene        | ND           | 0.0050  | 1                | 07/23/2025 21:58 |                 |          |
| 1,2,4-Trichlorobenzene        | ND           | 0.0050  | 1                | 07/23/2025 21:58 |                 |          |
| 1,1,1-Trichloroethane         | ND           | 0.0050  | 1                | 07/23/2025 21:58 |                 |          |
| 1,1,2-Trichloroethane         | ND           | 0.0050  | 1                | 07/23/2025 21:58 |                 |          |
| Trichloroethene               | ND           | 0.0050  | 1                | 07/23/2025 21:58 |                 |          |
| Trichlorofluoromethane        | ND           | 0.0050  | 1                | 07/23/2025 21:58 |                 |          |
| 1,2,3-Trichloropropane        | ND           | 0.00025 | 1                | 07/23/2025 21:58 |                 |          |
| 1,2,4-Trimethylbenzene        | ND           | 0.0050  | 1                | 07/23/2025 21:58 |                 |          |
| 1,3,5-Trimethylbenzene        | ND           | 0.0050  | 1                | 07/23/2025 21:58 |                 |          |
| Vinyl Chloride                | ND           | 0.00025 | 1                | 07/23/2025 21:58 |                 |          |
| m,p-Xylene                    | ND           | 0.0050  | 1                | 07/23/2025 21:58 |                 |          |
| o-Xylene                      | ND           | 0.0050  | 1                | 07/23/2025 21:58 |                 |          |
| Xylenes, Total                | ND           | 0.0050  | 1                | 07/23/2025 21:58 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-07-5   | 2507B37-014A | Soil   | 07/16/2025 13:23 | GC45 07232522.D | 321695   |

| Analytes             | Result         | RL            | DE        | Date Analyzed    |
|----------------------|----------------|---------------|-----------|------------------|
| <u>Surrogates</u>    | <u>REC (%)</u> | <u>Limits</u> | <u>DE</u> |                  |
| Dibromofluoromethane | 96             | 70-140        | 1         | 07/23/2025 21:58 |
| Toluene-d8           | 107            | 70-140        | 1         | 07/23/2025 21:58 |
| 4-BFB                | 107            | 70-140        | 1         | 07/23/2025 21:58 |
| Benzene-d6           | 106            | 50-140        | 1         | 07/23/2025 21:58 |
| Ethylbenzene-d10     | 111            | 50-140        | 1         | 07/23/2025 21:58 |
| 1,2-DCB-d4           | 79             | 40-140        | 1         | 07/23/2025 21:58 |

Analyst(s): EVA



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID                     | Lab ID       | Matrix  | Date Collected   |                  | Instrument      | Batch ID |
|-------------------------------|--------------|---------|------------------|------------------|-----------------|----------|
| SB-08-1                       | 2507B37-015A | Soil    | 07/16/2025 11:35 |                  | GC45 07232523.D | 321695   |
| Analytes                      | Result       | RL      | DE               | Date Analyzed    |                 |          |
| Acetone                       | ND           | 0.20    | 1                | 07/23/2025 22:38 |                 |          |
| tert-Amyl methyl ether (TAME) | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| Benzene                       | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| Bromobenzene                  | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| Bromochloromethane            | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| Bromodichloromethane          | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| Bromoform                     | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| Bromomethane                  | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| 2-Butanone (MEK)              | ND           | 0.10    | 1                | 07/23/2025 22:38 |                 |          |
| t-Butyl alcohol (TBA)         | ND           | 0.050   | 1                | 07/23/2025 22:38 |                 |          |
| n-Butyl benzene               | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| sec-Butyl benzene             | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| tert-Butyl benzene            | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| Carbon Disulfide              | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| Carbon Tetrachloride          | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| Chlorobenzene                 | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| Chloroethane                  | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| Chloroform                    | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| Chloromethane                 | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| 2-Chlorotoluene               | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| 4-Chlorotoluene               | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| Dibromochloromethane          | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| 1,2-Dibromo-3-chloropropane   | ND           | 0.00050 | 1                | 07/23/2025 22:38 |                 |          |
| 1,2-Dibromoethane (EDB)       | ND           | 0.00025 | 1                | 07/23/2025 22:38 |                 |          |
| Dibromomethane                | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| 1,2-Dichlorobenzene           | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| 1,3-Dichlorobenzene           | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| 1,4-Dichlorobenzene           | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| Dichlorodifluoromethane       | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| 1,1-Dichloroethane            | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| 1,2-Dichloroethane (1,2-DCA)  | ND           | 0.00010 | 1                | 07/23/2025 22:38 |                 |          |
| 1,1-Dichloroethene            | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| cis-1,2-Dichloroethene        | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| trans-1,2-Dichloroethene      | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| 1,2-Dichloropropane           | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| 1,3-Dichloropropane           | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID                     | Lab ID       | Matrix  | Date Collected   |                  | Instrument      | Batch ID |
|-------------------------------|--------------|---------|------------------|------------------|-----------------|----------|
| SB-08-1                       | 2507B37-015A | Soil    | 07/16/2025 11:35 |                  | GC45 07232523.D | 321695   |
| Analytes                      | Result       | RL      | DE               | Date Analyzed    |                 |          |
| 2,2-Dichloropropane           | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| 1,1-Dichloropropene           | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| cis-1,3-Dichloropropene       | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| trans-1,3-Dichloropropene     | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| Diisopropyl ether (DIPE)      | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| Ethylbenzene                  | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| Ethyl tert-butyl ether (ETBE) | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| Freon 113                     | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| Hexachlorobutadiene           | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| Hexachloroethane              | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| 2-Hexanone                    | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| Isopropylbenzene              | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| 4-Isopropyl toluene           | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| Methyl-t-butyl ether (MTBE)   | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| Methylene chloride            | ND           | 0.020   | 1                | 07/23/2025 22:38 |                 |          |
| 4-Methyl-2-pentanone (MIBK)   | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| Naphthalene                   | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| n-Propyl benzene              | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| Styrene                       | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| 1,1,1,2-Tetrachloroethane     | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| 1,1,2,2-Tetrachloroethane     | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| Tetrachloroethene             | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| Toluene                       | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| 1,2,3-Trichlorobenzene        | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| 1,2,4-Trichlorobenzene        | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| 1,1,1-Trichloroethane         | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| 1,1,2-Trichloroethane         | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| Trichloroethene               | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| Trichlorofluoromethane        | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| 1,2,3-Trichloropropane        | ND           | 0.00025 | 1                | 07/23/2025 22:38 |                 |          |
| 1,2,4-Trimethylbenzene        | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| 1,3,5-Trimethylbenzene        | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| Vinyl Chloride                | ND           | 0.00025 | 1                | 07/23/2025 22:38 |                 |          |
| m,p-Xylene                    | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| o-Xylene                      | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |
| Xylenes, Total                | ND           | 0.0050  | 1                | 07/23/2025 22:38 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-08-1   | 2507B37-015A | Soil   | 07/16/2025 11:35 | GC45 07232523.D | 321695   |

| Analytes             | Result         | RL            | DE        | Date Analyzed    |
|----------------------|----------------|---------------|-----------|------------------|
| <u>Surrogates</u>    | <u>REC (%)</u> | <u>Limits</u> | <u>DE</u> |                  |
| Dibromofluoromethane | 96             | 70-140        | 1         | 07/23/2025 22:38 |
| Toluene-d8           | 107            | 70-140        | 1         | 07/23/2025 22:38 |
| 4-BFB                | 104            | 70-140        | 1         | 07/23/2025 22:38 |
| Benzene-d6           | 108            | 50-140        | 1         | 07/23/2025 22:38 |
| Ethylbenzene-d10     | 111            | 50-140        | 1         | 07/23/2025 22:38 |
| 1,2-DCB-d4           | 80             | 40-140        | 1         | 07/23/2025 22:38 |

Analyst(s): EVA



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID                     | Lab ID       | Matrix  | Date Collected   |                  | Instrument      | Batch ID |
|-------------------------------|--------------|---------|------------------|------------------|-----------------|----------|
| SB-08-5                       | 2507B37-016A | Soil    | 07/16/2025 11:32 |                  | GC45 07232524.D | 321695   |
| Analytes                      | Result       | RL      | DE               | Date Analyzed    |                 |          |
| Acetone                       | ND           | 0.20    | 1                | 07/23/2025 23:19 |                 |          |
| tert-Amyl methyl ether (TAME) | ND           | 0.0050  | 1                | 07/23/2025 23:19 |                 |          |
| Benzene                       | ND           | 0.0050  | 1                | 07/23/2025 23:19 |                 |          |
| Bromobenzene                  | ND           | 0.0050  | 1                | 07/23/2025 23:19 |                 |          |
| Bromochloromethane            | ND           | 0.0050  | 1                | 07/23/2025 23:19 |                 |          |
| Bromodichloromethane          | ND           | 0.0050  | 1                | 07/23/2025 23:19 |                 |          |
| Bromoform                     | ND           | 0.0050  | 1                | 07/23/2025 23:19 |                 |          |
| Bromomethane                  | ND           | 0.0050  | 1                | 07/23/2025 23:19 |                 |          |
| 2-Butanone (MEK)              | ND           | 0.10    | 1                | 07/23/2025 23:19 |                 |          |
| t-Butyl alcohol (TBA)         | ND           | 0.050   | 1                | 07/23/2025 23:19 |                 |          |
| n-Butyl benzene               | ND           | 0.0050  | 1                | 07/23/2025 23:19 |                 |          |
| sec-Butyl benzene             | ND           | 0.0050  | 1                | 07/23/2025 23:19 |                 |          |
| tert-Butyl benzene            | ND           | 0.0050  | 1                | 07/23/2025 23:19 |                 |          |
| Carbon Disulfide              | ND           | 0.0050  | 1                | 07/23/2025 23:19 |                 |          |
| Carbon Tetrachloride          | ND           | 0.0050  | 1                | 07/23/2025 23:19 |                 |          |
| Chlorobenzene                 | ND           | 0.0050  | 1                | 07/23/2025 23:19 |                 |          |
| Chloroethane                  | ND           | 0.0050  | 1                | 07/23/2025 23:19 |                 |          |
| Chloroform                    | ND           | 0.0050  | 1                | 07/23/2025 23:19 |                 |          |
| Chloromethane                 | ND           | 0.0050  | 1                | 07/23/2025 23:19 |                 |          |
| 2-Chlorotoluene               | ND           | 0.0050  | 1                | 07/23/2025 23:19 |                 |          |
| 4-Chlorotoluene               | ND           | 0.0050  | 1                | 07/23/2025 23:19 |                 |          |
| Dibromochloromethane          | ND           | 0.0050  | 1                | 07/23/2025 23:19 |                 |          |
| 1,2-Dibromo-3-chloropropane   | ND           | 0.00050 | 1                | 07/23/2025 23:19 |                 |          |
| 1,2-Dibromoethane (EDB)       | ND           | 0.00025 | 1                | 07/23/2025 23:19 |                 |          |
| Dibromomethane                | ND           | 0.0050  | 1                | 07/23/2025 23:19 |                 |          |
| 1,2-Dichlorobenzene           | ND           | 0.0050  | 1                | 07/23/2025 23:19 |                 |          |
| 1,3-Dichlorobenzene           | ND           | 0.0050  | 1                | 07/23/2025 23:19 |                 |          |
| 1,4-Dichlorobenzene           | ND           | 0.0050  | 1                | 07/23/2025 23:19 |                 |          |
| Dichlorodifluoromethane       | ND           | 0.0050  | 1                | 07/23/2025 23:19 |                 |          |
| 1,1-Dichloroethane            | ND           | 0.0050  | 1                | 07/23/2025 23:19 |                 |          |
| 1,2-Dichloroethane (1,2-DCA)  | ND           | 0.00010 | 1                | 07/23/2025 23:19 |                 |          |
| 1,1-Dichloroethene            | ND           | 0.0050  | 1                | 07/23/2025 23:19 |                 |          |
| cis-1,2-Dichloroethene        | ND           | 0.0050  | 1                | 07/23/2025 23:19 |                 |          |
| trans-1,2-Dichloroethene      | ND           | 0.0050  | 1                | 07/23/2025 23:19 |                 |          |
| 1,2-Dichloropropane           | ND           | 0.0050  | 1                | 07/23/2025 23:19 |                 |          |
| 1,3-Dichloropropane           | ND           | 0.0050  | 1                | 07/23/2025 23:19 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-08-5   | 2507B37-016A | Soil   | 07/16/2025 11:32 | GC45 07232524.D | 321695   |

| Analytes                      | Result | RL      | DE | Date Analyzed    |
|-------------------------------|--------|---------|----|------------------|
| 2,2-Dichloropropane           | ND     | 0.0050  | 1  | 07/23/2025 23:19 |
| 1,1-Dichloropropene           | ND     | 0.0050  | 1  | 07/23/2025 23:19 |
| cis-1,3-Dichloropropene       | ND     | 0.0050  | 1  | 07/23/2025 23:19 |
| trans-1,3-Dichloropropene     | ND     | 0.0050  | 1  | 07/23/2025 23:19 |
| Diisopropyl ether (DIPE)      | ND     | 0.0050  | 1  | 07/23/2025 23:19 |
| Ethylbenzene                  | ND     | 0.0050  | 1  | 07/23/2025 23:19 |
| Ethyl tert-butyl ether (ETBE) | ND     | 0.0050  | 1  | 07/23/2025 23:19 |
| Freon 113                     | ND     | 0.0050  | 1  | 07/23/2025 23:19 |
| Hexachlorobutadiene           | ND     | 0.0050  | 1  | 07/23/2025 23:19 |
| Hexachloroethane              | ND     | 0.0050  | 1  | 07/23/2025 23:19 |
| 2-Hexanone                    | ND     | 0.0050  | 1  | 07/23/2025 23:19 |
| Isopropylbenzene              | ND     | 0.0050  | 1  | 07/23/2025 23:19 |
| 4-Isopropyl toluene           | ND     | 0.0050  | 1  | 07/23/2025 23:19 |
| Methyl-t-butyl ether (MTBE)   | ND     | 0.0050  | 1  | 07/23/2025 23:19 |
| Methylene chloride            | ND     | 0.020   | 1  | 07/23/2025 23:19 |
| 4-Methyl-2-pentanone (MIBK)   | ND     | 0.0050  | 1  | 07/23/2025 23:19 |
| Naphthalene                   | ND     | 0.0050  | 1  | 07/23/2025 23:19 |
| n-Propyl benzene              | ND     | 0.0050  | 1  | 07/23/2025 23:19 |
| Styrene                       | ND     | 0.0050  | 1  | 07/23/2025 23:19 |
| 1,1,1,2-Tetrachloroethane     | ND     | 0.0050  | 1  | 07/23/2025 23:19 |
| 1,1,2,2-Tetrachloroethane     | ND     | 0.0050  | 1  | 07/23/2025 23:19 |
| Tetrachloroethene             | ND     | 0.0050  | 1  | 07/23/2025 23:19 |
| Toluene                       | ND     | 0.0050  | 1  | 07/23/2025 23:19 |
| 1,2,3-Trichlorobenzene        | ND     | 0.0050  | 1  | 07/23/2025 23:19 |
| 1,2,4-Trichlorobenzene        | ND     | 0.0050  | 1  | 07/23/2025 23:19 |
| 1,1,1-Trichloroethane         | ND     | 0.0050  | 1  | 07/23/2025 23:19 |
| 1,1,2-Trichloroethane         | ND     | 0.0050  | 1  | 07/23/2025 23:19 |
| Trichloroethene               | ND     | 0.0050  | 1  | 07/23/2025 23:19 |
| Trichlorofluoromethane        | ND     | 0.0050  | 1  | 07/23/2025 23:19 |
| 1,2,3-Trichloropropane        | ND     | 0.00025 | 1  | 07/23/2025 23:19 |
| 1,2,4-Trimethylbenzene        | ND     | 0.0050  | 1  | 07/23/2025 23:19 |
| 1,3,5-Trimethylbenzene        | ND     | 0.0050  | 1  | 07/23/2025 23:19 |
| Vinyl Chloride                | ND     | 0.00025 | 1  | 07/23/2025 23:19 |
| m,p-Xylene                    | ND     | 0.0050  | 1  | 07/23/2025 23:19 |
| o-Xylene                      | ND     | 0.0050  | 1  | 07/23/2025 23:19 |
| Xylenes, Total                | ND     | 0.0050  | 1  | 07/23/2025 23:19 |

(Cont.)



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-08-5   | 2507B37-016A | Soil   | 07/16/2025 11:32 | GC45 07232524.D | 321695   |

| Analytes             | Result         | RL            | DE        | Date Analyzed    |
|----------------------|----------------|---------------|-----------|------------------|
| <u>Surrogates</u>    | <u>REC (%)</u> | <u>Limits</u> | <u>DE</u> |                  |
| Dibromofluoromethane | 96             | 70-140        | 1         | 07/23/2025 23:19 |
| Toluene-d8           | 105            | 70-140        | 1         | 07/23/2025 23:19 |
| 4-BFB                | 103            | 70-140        | 1         | 07/23/2025 23:19 |
| Benzene-d6           | 101            | 50-140        | 1         | 07/23/2025 23:19 |
| Ethylbenzene-d10     | 105            | 50-140        | 1         | 07/23/2025 23:19 |
| 1,2-DCB-d4           | 76             | 40-140        | 1         | 07/23/2025 23:19 |

Analyst(s): EVA



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID                     | Lab ID       | Matrix  | Date Collected   |                  | Instrument      | Batch ID |
|-------------------------------|--------------|---------|------------------|------------------|-----------------|----------|
| SB-09-1                       | 2507B37-017A | Soil    | 07/16/2025 11:56 |                  | GC45 07232525.D | 321695   |
| Analytes                      | Result       | RL      | DE               | Date Analyzed    |                 |          |
| Acetone                       | ND           | 0.20    | 1                | 07/23/2025 23:59 |                 |          |
| tert-Amyl methyl ether (TAME) | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| Benzene                       | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| Bromobenzene                  | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| Bromochloromethane            | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| Bromodichloromethane          | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| Bromoform                     | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| Bromomethane                  | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| 2-Butanone (MEK)              | ND           | 0.10    | 1                | 07/23/2025 23:59 |                 |          |
| t-Butyl alcohol (TBA)         | ND           | 0.050   | 1                | 07/23/2025 23:59 |                 |          |
| n-Butyl benzene               | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| sec-Butyl benzene             | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| tert-Butyl benzene            | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| Carbon Disulfide              | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| Carbon Tetrachloride          | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| Chlorobenzene                 | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| Chloroethane                  | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| Chloroform                    | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| Chloromethane                 | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| 2-Chlorotoluene               | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| 4-Chlorotoluene               | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| Dibromochloromethane          | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| 1,2-Dibromo-3-chloropropane   | ND           | 0.00050 | 1                | 07/23/2025 23:59 |                 |          |
| 1,2-Dibromoethane (EDB)       | ND           | 0.00025 | 1                | 07/23/2025 23:59 |                 |          |
| Dibromomethane                | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| 1,2-Dichlorobenzene           | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| 1,3-Dichlorobenzene           | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| 1,4-Dichlorobenzene           | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| Dichlorodifluoromethane       | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| 1,1-Dichloroethane            | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| 1,2-Dichloroethane (1,2-DCA)  | ND           | 0.00010 | 1                | 07/23/2025 23:59 |                 |          |
| 1,1-Dichloroethene            | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| cis-1,2-Dichloroethene        | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| trans-1,2-Dichloroethene      | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| 1,2-Dichloropropane           | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| 1,3-Dichloropropane           | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID                     | Lab ID       | Matrix  | Date Collected   |                  | Instrument      | Batch ID |
|-------------------------------|--------------|---------|------------------|------------------|-----------------|----------|
| SB-09-1                       | 2507B37-017A | Soil    | 07/16/2025 11:56 |                  | GC45 07232525.D | 321695   |
| Analytes                      | Result       | RL      | DE               | Date Analyzed    |                 |          |
| 2,2-Dichloropropane           | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| 1,1-Dichloropropene           | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| cis-1,3-Dichloropropene       | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| trans-1,3-Dichloropropene     | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| Diisopropyl ether (DIPE)      | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| Ethylbenzene                  | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| Ethyl tert-butyl ether (ETBE) | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| Freon 113                     | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| Hexachlorobutadiene           | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| Hexachloroethane              | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| 2-Hexanone                    | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| Isopropylbenzene              | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| 4-Isopropyl toluene           | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| Methyl-t-butyl ether (MTBE)   | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| Methylene chloride            | ND           | 0.020   | 1                | 07/23/2025 23:59 |                 |          |
| 4-Methyl-2-pentanone (MIBK)   | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| Naphthalene                   | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| n-Propyl benzene              | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| Styrene                       | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| 1,1,1,2-Tetrachloroethane     | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| 1,1,2,2-Tetrachloroethane     | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| Tetrachloroethene             | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| Toluene                       | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| 1,2,3-Trichlorobenzene        | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| 1,2,4-Trichlorobenzene        | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| 1,1,1-Trichloroethane         | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| 1,1,2-Trichloroethane         | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| Trichloroethene               | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| Trichlorofluoromethane        | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| 1,2,3-Trichloropropane        | ND           | 0.00025 | 1                | 07/23/2025 23:59 |                 |          |
| 1,2,4-Trimethylbenzene        | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| 1,3,5-Trimethylbenzene        | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| Vinyl Chloride                | ND           | 0.00025 | 1                | 07/23/2025 23:59 |                 |          |
| m,p-Xylene                    | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| o-Xylene                      | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |
| Xylenes, Total                | ND           | 0.0050  | 1                | 07/23/2025 23:59 |                 |          |

(Cont.)



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-09-1   | 2507B37-017A | Soil   | 07/16/2025 11:56 | GC45 07232525.D | 321695   |

| Analytes             | Result         | RL            | DE        | Date Analyzed    |
|----------------------|----------------|---------------|-----------|------------------|
| <u>Surrogates</u>    | <u>REC (%)</u> | <u>Limits</u> | <u>DE</u> |                  |
| Dibromofluoromethane | 96             | 70-140        | 1         | 07/23/2025 23:59 |
| Toluene-d8           | 106            | 70-140        | 1         | 07/23/2025 23:59 |
| 4-BFB                | 102            | 70-140        | 1         | 07/23/2025 23:59 |
| Benzene-d6           | 108            | 50-140        | 1         | 07/23/2025 23:59 |
| Ethylbenzene-d10     | 111            | 50-140        | 1         | 07/23/2025 23:59 |
| 1,2-DCB-d4           | 79             | 40-140        | 1         | 07/23/2025 23:59 |

Analyst(s): EVA



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID                     | Lab ID       | Matrix  | Date Collected   |                  | Instrument      | Batch ID |
|-------------------------------|--------------|---------|------------------|------------------|-----------------|----------|
| SB-09-5                       | 2507B37-018A | Soil    | 07/16/2025 11:53 |                  | GC45 07232526.D | 321695   |
| Analytes                      | Result       | RL      | DE               | Date Analyzed    |                 |          |
| Acetone                       | ND           | 0.20    | 1                | 07/24/2025 00:39 |                 |          |
| tert-Amyl methyl ether (TAME) | ND           | 0.0050  | 1                | 07/24/2025 00:39 |                 |          |
| Benzene                       | ND           | 0.0050  | 1                | 07/24/2025 00:39 |                 |          |
| Bromobenzene                  | ND           | 0.0050  | 1                | 07/24/2025 00:39 |                 |          |
| Bromochloromethane            | ND           | 0.0050  | 1                | 07/24/2025 00:39 |                 |          |
| Bromodichloromethane          | ND           | 0.0050  | 1                | 07/24/2025 00:39 |                 |          |
| Bromoform                     | ND           | 0.0050  | 1                | 07/24/2025 00:39 |                 |          |
| Bromomethane                  | ND           | 0.0050  | 1                | 07/24/2025 00:39 |                 |          |
| 2-Butanone (MEK)              | ND           | 0.10    | 1                | 07/24/2025 00:39 |                 |          |
| t-Butyl alcohol (TBA)         | ND           | 0.050   | 1                | 07/24/2025 00:39 |                 |          |
| n-Butyl benzene               | ND           | 0.0050  | 1                | 07/24/2025 00:39 |                 |          |
| sec-Butyl benzene             | ND           | 0.0050  | 1                | 07/24/2025 00:39 |                 |          |
| tert-Butyl benzene            | ND           | 0.0050  | 1                | 07/24/2025 00:39 |                 |          |
| Carbon Disulfide              | ND           | 0.0050  | 1                | 07/24/2025 00:39 |                 |          |
| Carbon Tetrachloride          | ND           | 0.0050  | 1                | 07/24/2025 00:39 |                 |          |
| Chlorobenzene                 | ND           | 0.0050  | 1                | 07/24/2025 00:39 |                 |          |
| Chloroethane                  | ND           | 0.0050  | 1                | 07/24/2025 00:39 |                 |          |
| Chloroform                    | ND           | 0.0050  | 1                | 07/24/2025 00:39 |                 |          |
| Chloromethane                 | ND           | 0.0050  | 1                | 07/24/2025 00:39 |                 |          |
| 2-Chlorotoluene               | ND           | 0.0050  | 1                | 07/24/2025 00:39 |                 |          |
| 4-Chlorotoluene               | ND           | 0.0050  | 1                | 07/24/2025 00:39 |                 |          |
| Dibromochloromethane          | ND           | 0.0050  | 1                | 07/24/2025 00:39 |                 |          |
| 1,2-Dibromo-3-chloropropane   | ND           | 0.00050 | 1                | 07/24/2025 00:39 |                 |          |
| 1,2-Dibromoethane (EDB)       | ND           | 0.00025 | 1                | 07/24/2025 00:39 |                 |          |
| Dibromomethane                | ND           | 0.0050  | 1                | 07/24/2025 00:39 |                 |          |
| 1,2-Dichlorobenzene           | ND           | 0.0050  | 1                | 07/24/2025 00:39 |                 |          |
| 1,3-Dichlorobenzene           | ND           | 0.0050  | 1                | 07/24/2025 00:39 |                 |          |
| 1,4-Dichlorobenzene           | ND           | 0.0050  | 1                | 07/24/2025 00:39 |                 |          |
| Dichlorodifluoromethane       | ND           | 0.0050  | 1                | 07/24/2025 00:39 |                 |          |
| 1,1-Dichloroethane            | ND           | 0.0050  | 1                | 07/24/2025 00:39 |                 |          |
| 1,2-Dichloroethane (1,2-DCA)  | ND           | 0.00010 | 1                | 07/24/2025 00:39 |                 |          |
| 1,1-Dichloroethene            | ND           | 0.0050  | 1                | 07/24/2025 00:39 |                 |          |
| cis-1,2-Dichloroethene        | ND           | 0.0050  | 1                | 07/24/2025 00:39 |                 |          |
| trans-1,2-Dichloroethene      | ND           | 0.0050  | 1                | 07/24/2025 00:39 |                 |          |
| 1,2-Dichloropropane           | ND           | 0.0050  | 1                | 07/24/2025 00:39 |                 |          |
| 1,3-Dichloropropane           | ND           | 0.0050  | 1                | 07/24/2025 00:39 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-09-5   | 2507B37-018A | Soil   | 07/16/2025 11:53 | GC45 07232526.D | 321695   |

| Analytes                      | Result | RL      | DE | Date Analyzed    |
|-------------------------------|--------|---------|----|------------------|
| 2,2-Dichloropropane           | ND     | 0.0050  | 1  | 07/24/2025 00:39 |
| 1,1-Dichloropropene           | ND     | 0.0050  | 1  | 07/24/2025 00:39 |
| cis-1,3-Dichloropropene       | ND     | 0.0050  | 1  | 07/24/2025 00:39 |
| trans-1,3-Dichloropropene     | ND     | 0.0050  | 1  | 07/24/2025 00:39 |
| Diisopropyl ether (DIPE)      | ND     | 0.0050  | 1  | 07/24/2025 00:39 |
| Ethylbenzene                  | ND     | 0.0050  | 1  | 07/24/2025 00:39 |
| Ethyl tert-butyl ether (ETBE) | ND     | 0.0050  | 1  | 07/24/2025 00:39 |
| Freon 113                     | ND     | 0.0050  | 1  | 07/24/2025 00:39 |
| Hexachlorobutadiene           | ND     | 0.0050  | 1  | 07/24/2025 00:39 |
| Hexachloroethane              | ND     | 0.0050  | 1  | 07/24/2025 00:39 |
| 2-Hexanone                    | ND     | 0.0050  | 1  | 07/24/2025 00:39 |
| Isopropylbenzene              | ND     | 0.0050  | 1  | 07/24/2025 00:39 |
| 4-Isopropyl toluene           | ND     | 0.0050  | 1  | 07/24/2025 00:39 |
| Methyl-t-butyl ether (MTBE)   | ND     | 0.0050  | 1  | 07/24/2025 00:39 |
| Methylene chloride            | ND     | 0.020   | 1  | 07/24/2025 00:39 |
| 4-Methyl-2-pentanone (MIBK)   | ND     | 0.0050  | 1  | 07/24/2025 00:39 |
| Naphthalene                   | ND     | 0.0050  | 1  | 07/24/2025 00:39 |
| n-Propyl benzene              | ND     | 0.0050  | 1  | 07/24/2025 00:39 |
| Styrene                       | ND     | 0.0050  | 1  | 07/24/2025 00:39 |
| 1,1,1,2-Tetrachloroethane     | ND     | 0.0050  | 1  | 07/24/2025 00:39 |
| 1,1,2,2-Tetrachloroethane     | ND     | 0.0050  | 1  | 07/24/2025 00:39 |
| Tetrachloroethene             | ND     | 0.0050  | 1  | 07/24/2025 00:39 |
| Toluene                       | ND     | 0.0050  | 1  | 07/24/2025 00:39 |
| 1,2,3-Trichlorobenzene        | ND     | 0.0050  | 1  | 07/24/2025 00:39 |
| 1,2,4-Trichlorobenzene        | ND     | 0.0050  | 1  | 07/24/2025 00:39 |
| 1,1,1-Trichloroethane         | ND     | 0.0050  | 1  | 07/24/2025 00:39 |
| 1,1,2-Trichloroethane         | ND     | 0.0050  | 1  | 07/24/2025 00:39 |
| Trichloroethene               | ND     | 0.0050  | 1  | 07/24/2025 00:39 |
| Trichlorofluoromethane        | ND     | 0.0050  | 1  | 07/24/2025 00:39 |
| 1,2,3-Trichloropropane        | ND     | 0.00025 | 1  | 07/24/2025 00:39 |
| 1,2,4-Trimethylbenzene        | ND     | 0.0050  | 1  | 07/24/2025 00:39 |
| 1,3,5-Trimethylbenzene        | ND     | 0.0050  | 1  | 07/24/2025 00:39 |
| Vinyl Chloride                | ND     | 0.00025 | 1  | 07/24/2025 00:39 |
| m,p-Xylene                    | ND     | 0.0050  | 1  | 07/24/2025 00:39 |
| o-Xylene                      | ND     | 0.0050  | 1  | 07/24/2025 00:39 |
| Xylenes, Total                | ND     | 0.0050  | 1  | 07/24/2025 00:39 |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-09-5   | 2507B37-018A | Soil   | 07/16/2025 11:53 | GC45 07232526.D | 321695   |

| Analytes             | Result         | RL            | DE        | Date Analyzed    |
|----------------------|----------------|---------------|-----------|------------------|
| <u>Surrogates</u>    | <u>REC (%)</u> | <u>Limits</u> | <u>DE</u> |                  |
| Dibromofluoromethane | 95             | 70-140        | 1         | 07/24/2025 00:39 |
| Toluene-d8           | 107            | 70-140        | 1         | 07/24/2025 00:39 |
| 4-BFB                | 103            | 70-140        | 1         | 07/24/2025 00:39 |
| Benzene-d6           | 106            | 50-140        | 1         | 07/24/2025 00:39 |
| Ethylbenzene-d10     | 109            | 50-140        | 1         | 07/24/2025 00:39 |
| 1,2-DCB-d4           | 81             | 40-140        | 1         | 07/24/2025 00:39 |

Analyst(s): EVA



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID                     | Lab ID       | Matrix  | Date Collected   |                  | Instrument      | Batch ID |
|-------------------------------|--------------|---------|------------------|------------------|-----------------|----------|
| SB-04-8.5                     | 2507B37-019A | Soil    | 07/16/2025 10:46 |                  | GC45 07232527.D | 321695   |
| Analytes                      | Result       | RL      | DE               | Date Analyzed    |                 |          |
| Acetone                       | ND           | 0.20    | 1                | 07/24/2025 01:19 |                 |          |
| tert-Amyl methyl ether (TAME) | ND           | 0.0050  | 1                | 07/24/2025 01:19 |                 |          |
| Benzene                       | ND           | 0.0050  | 1                | 07/24/2025 01:19 |                 |          |
| Bromobenzene                  | ND           | 0.0050  | 1                | 07/24/2025 01:19 |                 |          |
| Bromochloromethane            | ND           | 0.0050  | 1                | 07/24/2025 01:19 |                 |          |
| Bromodichloromethane          | ND           | 0.0050  | 1                | 07/24/2025 01:19 |                 |          |
| Bromoform                     | ND           | 0.0050  | 1                | 07/24/2025 01:19 |                 |          |
| Bromomethane                  | ND           | 0.0050  | 1                | 07/24/2025 01:19 |                 |          |
| 2-Butanone (MEK)              | ND           | 0.10    | 1                | 07/24/2025 01:19 |                 |          |
| t-Butyl alcohol (TBA)         | ND           | 0.050   | 1                | 07/24/2025 01:19 |                 |          |
| n-Butyl benzene               | ND           | 0.0050  | 1                | 07/24/2025 01:19 |                 |          |
| sec-Butyl benzene             | ND           | 0.0050  | 1                | 07/24/2025 01:19 |                 |          |
| tert-Butyl benzene            | ND           | 0.0050  | 1                | 07/24/2025 01:19 |                 |          |
| Carbon Disulfide              | ND           | 0.0050  | 1                | 07/24/2025 01:19 |                 |          |
| Carbon Tetrachloride          | ND           | 0.0050  | 1                | 07/24/2025 01:19 |                 |          |
| Chlorobenzene                 | ND           | 0.0050  | 1                | 07/24/2025 01:19 |                 |          |
| Chloroethane                  | ND           | 0.0050  | 1                | 07/24/2025 01:19 |                 |          |
| Chloroform                    | ND           | 0.0050  | 1                | 07/24/2025 01:19 |                 |          |
| Chloromethane                 | ND           | 0.0050  | 1                | 07/24/2025 01:19 |                 |          |
| 2-Chlorotoluene               | ND           | 0.0050  | 1                | 07/24/2025 01:19 |                 |          |
| 4-Chlorotoluene               | ND           | 0.0050  | 1                | 07/24/2025 01:19 |                 |          |
| Dibromochloromethane          | ND           | 0.0050  | 1                | 07/24/2025 01:19 |                 |          |
| 1,2-Dibromo-3-chloropropane   | ND           | 0.00050 | 1                | 07/24/2025 01:19 |                 |          |
| 1,2-Dibromoethane (EDB)       | ND           | 0.00025 | 1                | 07/24/2025 01:19 |                 |          |
| Dibromomethane                | ND           | 0.0050  | 1                | 07/24/2025 01:19 |                 |          |
| 1,2-Dichlorobenzene           | ND           | 0.0050  | 1                | 07/24/2025 01:19 |                 |          |
| 1,3-Dichlorobenzene           | ND           | 0.0050  | 1                | 07/24/2025 01:19 |                 |          |
| 1,4-Dichlorobenzene           | ND           | 0.0050  | 1                | 07/24/2025 01:19 |                 |          |
| Dichlorodifluoromethane       | ND           | 0.0050  | 1                | 07/24/2025 01:19 |                 |          |
| 1,1-Dichloroethane            | ND           | 0.0050  | 1                | 07/24/2025 01:19 |                 |          |
| 1,2-Dichloroethane (1,2-DCA)  | ND           | 0.00010 | 1                | 07/24/2025 01:19 |                 |          |
| 1,1-Dichloroethene            | ND           | 0.0050  | 1                | 07/24/2025 01:19 |                 |          |
| cis-1,2-Dichloroethene        | ND           | 0.0050  | 1                | 07/24/2025 01:19 |                 |          |
| trans-1,2-Dichloroethene      | ND           | 0.0050  | 1                | 07/24/2025 01:19 |                 |          |
| 1,2-Dichloropropane           | ND           | 0.0050  | 1                | 07/24/2025 01:19 |                 |          |
| 1,3-Dichloropropane           | ND           | 0.0050  | 1                | 07/24/2025 01:19 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-04-8.5 | 2507B37-019A | Soil   | 07/16/2025 10:46 | GC45 07232527.D | 321695   |

| Analytes                      | Result | RL      | DE | Date Analyzed    |
|-------------------------------|--------|---------|----|------------------|
| 2,2-Dichloropropane           | ND     | 0.0050  | 1  | 07/24/2025 01:19 |
| 1,1-Dichloropropene           | ND     | 0.0050  | 1  | 07/24/2025 01:19 |
| cis-1,3-Dichloropropene       | ND     | 0.0050  | 1  | 07/24/2025 01:19 |
| trans-1,3-Dichloropropene     | ND     | 0.0050  | 1  | 07/24/2025 01:19 |
| Diisopropyl ether (DIPE)      | ND     | 0.0050  | 1  | 07/24/2025 01:19 |
| Ethylbenzene                  | ND     | 0.0050  | 1  | 07/24/2025 01:19 |
| Ethyl tert-butyl ether (ETBE) | ND     | 0.0050  | 1  | 07/24/2025 01:19 |
| Freon 113                     | ND     | 0.0050  | 1  | 07/24/2025 01:19 |
| Hexachlorobutadiene           | ND     | 0.0050  | 1  | 07/24/2025 01:19 |
| Hexachloroethane              | ND     | 0.0050  | 1  | 07/24/2025 01:19 |
| 2-Hexanone                    | ND     | 0.0050  | 1  | 07/24/2025 01:19 |
| Isopropylbenzene              | ND     | 0.0050  | 1  | 07/24/2025 01:19 |
| 4-Isopropyl toluene           | ND     | 0.0050  | 1  | 07/24/2025 01:19 |
| Methyl-t-butyl ether (MTBE)   | ND     | 0.0050  | 1  | 07/24/2025 01:19 |
| Methylene chloride            | ND     | 0.020   | 1  | 07/24/2025 01:19 |
| 4-Methyl-2-pentanone (MIBK)   | ND     | 0.0050  | 1  | 07/24/2025 01:19 |
| Naphthalene                   | ND     | 0.0050  | 1  | 07/24/2025 01:19 |
| n-Propyl benzene              | ND     | 0.0050  | 1  | 07/24/2025 01:19 |
| Styrene                       | ND     | 0.0050  | 1  | 07/24/2025 01:19 |
| 1,1,1,2-Tetrachloroethane     | ND     | 0.0050  | 1  | 07/24/2025 01:19 |
| 1,1,2,2-Tetrachloroethane     | ND     | 0.0050  | 1  | 07/24/2025 01:19 |
| Tetrachloroethene             | ND     | 0.0050  | 1  | 07/24/2025 01:19 |
| Toluene                       | ND     | 0.0050  | 1  | 07/24/2025 01:19 |
| 1,2,3-Trichlorobenzene        | ND     | 0.0050  | 1  | 07/24/2025 01:19 |
| 1,2,4-Trichlorobenzene        | ND     | 0.0050  | 1  | 07/24/2025 01:19 |
| 1,1,1-Trichloroethane         | ND     | 0.0050  | 1  | 07/24/2025 01:19 |
| 1,1,2-Trichloroethane         | ND     | 0.0050  | 1  | 07/24/2025 01:19 |
| Trichloroethene               | ND     | 0.0050  | 1  | 07/24/2025 01:19 |
| Trichlorofluoromethane        | ND     | 0.0050  | 1  | 07/24/2025 01:19 |
| 1,2,3-Trichloropropane        | ND     | 0.00025 | 1  | 07/24/2025 01:19 |
| 1,2,4-Trimethylbenzene        | ND     | 0.0050  | 1  | 07/24/2025 01:19 |
| 1,3,5-Trimethylbenzene        | ND     | 0.0050  | 1  | 07/24/2025 01:19 |
| Vinyl Chloride                | ND     | 0.00025 | 1  | 07/24/2025 01:19 |
| m,p-Xylene                    | ND     | 0.0050  | 1  | 07/24/2025 01:19 |
| o-Xylene                      | ND     | 0.0050  | 1  | 07/24/2025 01:19 |
| Xylenes, Total                | ND     | 0.0050  | 1  | 07/24/2025 01:19 |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-04-8.5 | 2507B37-019A | Soil   | 07/16/2025 10:46 | GC45 07232527.D | 321695   |

| Analytes             | Result         | RL            | DE        | Date Analyzed    |
|----------------------|----------------|---------------|-----------|------------------|
| <u>Surrogates</u>    | <u>REC (%)</u> | <u>Limits</u> | <u>DE</u> |                  |
| Dibromofluoromethane | 96             | 70-140        | 1         | 07/24/2025 01:19 |
| Toluene-d8           | 106            | 70-140        | 1         | 07/24/2025 01:19 |
| 4-BFB                | 100            | 70-140        | 1         | 07/24/2025 01:19 |
| Benzene-d6           | 104            | 50-140        | 1         | 07/24/2025 01:19 |
| Ethylbenzene-d10     | 106            | 50-140        | 1         | 07/24/2025 01:19 |
| 1,2-DCB-d4           | 78             | 40-140        | 1         | 07/24/2025 01:19 |

Analyst(s): EVA





## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID                     | Lab ID        | Matrix | Date Collected   | Instrument      | Batch ID             |
|-------------------------------|---------------|--------|------------------|-----------------|----------------------|
| SB-04-10                      | 2507B37-020A  | Soil   | 07/16/2025 09:12 | GC38 07232517.D | 321720               |
| <u>Analytes</u>               | <u>Result</u> |        | <u>RL</u>        | <u>DE</u>       | <u>Date Analyzed</u> |
| Acetone                       | ND            |        | 0.20             | 1               | 07/23/2025 17:39     |
| tert-Amyl methyl ether (TAME) | ND            |        | 0.0050           | 1               | 07/23/2025 17:39     |
| Benzene                       | ND            |        | 0.0050           | 1               | 07/23/2025 17:39     |
| Bromobenzene                  | ND            |        | 0.0050           | 1               | 07/23/2025 17:39     |
| Bromochloromethane            | ND            |        | 0.0050           | 1               | 07/23/2025 17:39     |
| Bromodichloromethane          | ND            |        | 0.0050           | 1               | 07/23/2025 17:39     |
| Bromoform                     | ND            |        | 0.0050           | 1               | 07/23/2025 17:39     |
| Bromomethane                  | ND            |        | 0.0050           | 1               | 07/23/2025 17:39     |
| 2-Butanone (MEK)              | ND            |        | 0.10             | 1               | 07/23/2025 17:39     |
| t-Butyl alcohol (TBA)         | ND            |        | 0.050            | 1               | 07/23/2025 17:39     |
| n-Butyl benzene               | ND            |        | 0.0050           | 1               | 07/23/2025 17:39     |
| sec-Butyl benzene             | ND            |        | 0.0050           | 1               | 07/23/2025 17:39     |
| tert-Butyl benzene            | ND            |        | 0.0050           | 1               | 07/23/2025 17:39     |
| Carbon Disulfide              | ND            |        | 0.0050           | 1               | 07/23/2025 17:39     |
| Carbon Tetrachloride          | ND            |        | 0.0050           | 1               | 07/23/2025 17:39     |
| Chlorobenzene                 | ND            |        | 0.0050           | 1               | 07/23/2025 17:39     |
| Chloroethane                  | ND            |        | 0.0050           | 1               | 07/23/2025 17:39     |
| Chloroform                    | ND            |        | 0.0050           | 1               | 07/23/2025 17:39     |
| Chloromethane                 | ND            |        | 0.0050           | 1               | 07/23/2025 17:39     |
| 2-Chlorotoluene               | ND            |        | 0.0050           | 1               | 07/23/2025 17:39     |
| 4-Chlorotoluene               | ND            |        | 0.0050           | 1               | 07/23/2025 17:39     |
| Dibromochloromethane          | ND            |        | 0.0050           | 1               | 07/23/2025 17:39     |
| 1,2-Dibromo-3-chloropropane   | ND            |        | 0.00050          | 1               | 07/23/2025 17:39     |
| 1,2-Dibromoethane (EDB)       | ND            |        | 0.00025          | 1               | 07/23/2025 17:39     |
| Dibromomethane                | ND            |        | 0.0050           | 1               | 07/23/2025 17:39     |
| 1,2-Dichlorobenzene           | ND            |        | 0.0050           | 1               | 07/23/2025 17:39     |
| 1,3-Dichlorobenzene           | ND            |        | 0.0050           | 1               | 07/23/2025 17:39     |
| 1,4-Dichlorobenzene           | ND            |        | 0.0050           | 1               | 07/23/2025 17:39     |
| Dichlorodifluoromethane       | ND            |        | 0.0050           | 1               | 07/23/2025 17:39     |
| 1,1-Dichloroethane            | ND            |        | 0.0050           | 1               | 07/23/2025 17:39     |
| 1,2-Dichloroethane (1,2-DCA)  | ND            |        | 0.00010          | 1               | 07/23/2025 17:39     |
| 1,1-Dichloroethene            | ND            |        | 0.0050           | 1               | 07/23/2025 17:39     |
| cis-1,2-Dichloroethene        | ND            |        | 0.0050           | 1               | 07/23/2025 17:39     |
| trans-1,2-Dichloroethene      | ND            |        | 0.0050           | 1               | 07/23/2025 17:39     |
| 1,2-Dichloropropane           | ND            |        | 0.0050           | 1               | 07/23/2025 17:39     |
| 1,3-Dichloropropane           | ND            |        | 0.0050           | 1               | 07/23/2025 17:39     |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-04-10  | 2507B37-020A | Soil   | 07/16/2025 09:12 | GC38 07232517.D | 321720   |

| Analytes                      | Result | RL      | DE | Date Analyzed    |
|-------------------------------|--------|---------|----|------------------|
| 2,2-Dichloropropane           | ND     | 0.0050  | 1  | 07/23/2025 17:39 |
| 1,1-Dichloropropene           | ND     | 0.0050  | 1  | 07/23/2025 17:39 |
| cis-1,3-Dichloropropene       | ND     | 0.0050  | 1  | 07/23/2025 17:39 |
| trans-1,3-Dichloropropene     | ND     | 0.0050  | 1  | 07/23/2025 17:39 |
| Diisopropyl ether (DIPE)      | ND     | 0.0050  | 1  | 07/23/2025 17:39 |
| Ethylbenzene                  | ND     | 0.0050  | 1  | 07/23/2025 17:39 |
| Ethyl tert-butyl ether (ETBE) | ND     | 0.0050  | 1  | 07/23/2025 17:39 |
| Freon 113                     | ND     | 0.0050  | 1  | 07/23/2025 17:39 |
| Hexachlorobutadiene           | ND     | 0.0050  | 1  | 07/23/2025 17:39 |
| Hexachloroethane              | ND     | 0.0050  | 1  | 07/23/2025 17:39 |
| 2-Hexanone                    | ND     | 0.0050  | 1  | 07/23/2025 17:39 |
| Isopropylbenzene              | ND     | 0.0050  | 1  | 07/23/2025 17:39 |
| 4-Isopropyl toluene           | ND     | 0.0050  | 1  | 07/23/2025 17:39 |
| Methyl-t-butyl ether (MTBE)   | ND     | 0.0050  | 1  | 07/23/2025 17:39 |
| Methylene chloride            | ND     | 0.020   | 1  | 07/23/2025 17:39 |
| 4-Methyl-2-pentanone (MIBK)   | ND     | 0.0050  | 1  | 07/23/2025 17:39 |
| Naphthalene                   | ND     | 0.0050  | 1  | 07/23/2025 17:39 |
| n-Propyl benzene              | ND     | 0.0050  | 1  | 07/23/2025 17:39 |
| Styrene                       | ND     | 0.0050  | 1  | 07/23/2025 17:39 |
| 1,1,1,2-Tetrachloroethane     | ND     | 0.0050  | 1  | 07/23/2025 17:39 |
| 1,1,2,2-Tetrachloroethane     | ND     | 0.0050  | 1  | 07/23/2025 17:39 |
| Tetrachloroethene             | ND     | 0.0050  | 1  | 07/23/2025 17:39 |
| Toluene                       | ND     | 0.0050  | 1  | 07/23/2025 17:39 |
| 1,2,3-Trichlorobenzene        | ND     | 0.0050  | 1  | 07/23/2025 17:39 |
| 1,2,4-Trichlorobenzene        | ND     | 0.0050  | 1  | 07/23/2025 17:39 |
| 1,1,1-Trichloroethane         | ND     | 0.0050  | 1  | 07/23/2025 17:39 |
| 1,1,2-Trichloroethane         | ND     | 0.0050  | 1  | 07/23/2025 17:39 |
| Trichloroethene               | ND     | 0.0050  | 1  | 07/23/2025 17:39 |
| Trichlorofluoromethane        | ND     | 0.0050  | 1  | 07/23/2025 17:39 |
| 1,2,3-Trichloropropane        | ND     | 0.00025 | 1  | 07/23/2025 17:39 |
| 1,2,4-Trimethylbenzene        | ND     | 0.0050  | 1  | 07/23/2025 17:39 |
| 1,3,5-Trimethylbenzene        | ND     | 0.0050  | 1  | 07/23/2025 17:39 |
| Vinyl Chloride                | ND     | 0.00025 | 1  | 07/23/2025 17:39 |
| m,p-Xylene                    | ND     | 0.0050  | 1  | 07/23/2025 17:39 |
| o-Xylene                      | ND     | 0.0050  | 1  | 07/23/2025 17:39 |
| Xylenes, Total                | ND     | 0.0050  | 1  | 07/23/2025 17:39 |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-04-10  | 2507B37-020A | Soil   | 07/16/2025 09:12 | GC38 07232517.D | 321720   |

| Analytes             | Result         | RL            | DE        | Date Analyzed    |
|----------------------|----------------|---------------|-----------|------------------|
| <u>Surrogates</u>    | <u>REC (%)</u> | <u>Limits</u> | <u>DE</u> |                  |
| Dibromofluoromethane | 87             | 70-140        | 1         | 07/23/2025 17:39 |
| Toluene-d8           | 108            | 70-140        | 1         | 07/23/2025 17:39 |
| 4-BFB                | 95             | 70-140        | 1         | 07/23/2025 17:39 |
| Benzene-d6           | 100            | 50-140        | 1         | 07/23/2025 17:39 |
| Ethylbenzene-d10     | 109            | 50-140        | 1         | 07/23/2025 17:39 |
| 1,2-DCB-d4           | 74             | 40-140        | 1         | 07/23/2025 17:39 |

Analyst(s): TW



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID                     | Lab ID       | Matrix  | Date Collected   |                  | Instrument      | Batch ID |
|-------------------------------|--------------|---------|------------------|------------------|-----------------|----------|
| SB-08-3                       | 2507B37-021A | Soil    | 07/16/2025 11:38 |                  | GC38 07232518.D | 321720   |
| Analytes                      | Result       | RL      | DE               | Date Analyzed    |                 |          |
| Acetone                       | ND           | 0.20    | 1                | 07/23/2025 18:18 |                 |          |
| tert-Amyl methyl ether (TAME) | ND           | 0.0050  | 1                | 07/23/2025 18:18 |                 |          |
| Benzene                       | ND           | 0.0050  | 1                | 07/23/2025 18:18 |                 |          |
| Bromobenzene                  | ND           | 0.0050  | 1                | 07/23/2025 18:18 |                 |          |
| Bromochloromethane            | ND           | 0.0050  | 1                | 07/23/2025 18:18 |                 |          |
| Bromodichloromethane          | ND           | 0.0050  | 1                | 07/23/2025 18:18 |                 |          |
| Bromoform                     | ND           | 0.0050  | 1                | 07/23/2025 18:18 |                 |          |
| Bromomethane                  | ND           | 0.0050  | 1                | 07/23/2025 18:18 |                 |          |
| 2-Butanone (MEK)              | ND           | 0.10    | 1                | 07/23/2025 18:18 |                 |          |
| t-Butyl alcohol (TBA)         | ND           | 0.050   | 1                | 07/23/2025 18:18 |                 |          |
| n-Butyl benzene               | ND           | 0.0050  | 1                | 07/23/2025 18:18 |                 |          |
| sec-Butyl benzene             | ND           | 0.0050  | 1                | 07/23/2025 18:18 |                 |          |
| tert-Butyl benzene            | ND           | 0.0050  | 1                | 07/23/2025 18:18 |                 |          |
| Carbon Disulfide              | ND           | 0.0050  | 1                | 07/23/2025 18:18 |                 |          |
| Carbon Tetrachloride          | ND           | 0.0050  | 1                | 07/23/2025 18:18 |                 |          |
| Chlorobenzene                 | ND           | 0.0050  | 1                | 07/23/2025 18:18 |                 |          |
| Chloroethane                  | ND           | 0.0050  | 1                | 07/23/2025 18:18 |                 |          |
| Chloroform                    | ND           | 0.0050  | 1                | 07/23/2025 18:18 |                 |          |
| Chloromethane                 | ND           | 0.0050  | 1                | 07/23/2025 18:18 |                 |          |
| 2-Chlorotoluene               | ND           | 0.0050  | 1                | 07/23/2025 18:18 |                 |          |
| 4-Chlorotoluene               | ND           | 0.0050  | 1                | 07/23/2025 18:18 |                 |          |
| Dibromochloromethane          | ND           | 0.0050  | 1                | 07/23/2025 18:18 |                 |          |
| 1,2-Dibromo-3-chloropropane   | ND           | 0.00050 | 1                | 07/23/2025 18:18 |                 |          |
| 1,2-Dibromoethane (EDB)       | ND           | 0.00025 | 1                | 07/23/2025 18:18 |                 |          |
| Dibromomethane                | ND           | 0.0050  | 1                | 07/23/2025 18:18 |                 |          |
| 1,2-Dichlorobenzene           | ND           | 0.0050  | 1                | 07/23/2025 18:18 |                 |          |
| 1,3-Dichlorobenzene           | ND           | 0.0050  | 1                | 07/23/2025 18:18 |                 |          |
| 1,4-Dichlorobenzene           | ND           | 0.0050  | 1                | 07/23/2025 18:18 |                 |          |
| Dichlorodifluoromethane       | ND           | 0.0050  | 1                | 07/23/2025 18:18 |                 |          |
| 1,1-Dichloroethane            | ND           | 0.0050  | 1                | 07/23/2025 18:18 |                 |          |
| 1,2-Dichloroethane (1,2-DCA)  | ND           | 0.00010 | 1                | 07/23/2025 18:18 |                 |          |
| 1,1-Dichloroethene            | ND           | 0.0050  | 1                | 07/23/2025 18:18 |                 |          |
| cis-1,2-Dichloroethene        | ND           | 0.0050  | 1                | 07/23/2025 18:18 |                 |          |
| trans-1,2-Dichloroethene      | ND           | 0.0050  | 1                | 07/23/2025 18:18 |                 |          |
| 1,2-Dichloropropane           | ND           | 0.0050  | 1                | 07/23/2025 18:18 |                 |          |
| 1,3-Dichloropropane           | ND           | 0.0050  | 1                | 07/23/2025 18:18 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-08-3   | 2507B37-021A | Soil   | 07/16/2025 11:38 | GC38 07232518.D | 321720   |

| Analytes                      | Result | RL      | DE | Date Analyzed    |
|-------------------------------|--------|---------|----|------------------|
| 2,2-Dichloropropane           | ND     | 0.0050  | 1  | 07/23/2025 18:18 |
| 1,1-Dichloropropene           | ND     | 0.0050  | 1  | 07/23/2025 18:18 |
| cis-1,3-Dichloropropene       | ND     | 0.0050  | 1  | 07/23/2025 18:18 |
| trans-1,3-Dichloropropene     | ND     | 0.0050  | 1  | 07/23/2025 18:18 |
| Diisopropyl ether (DIPE)      | ND     | 0.0050  | 1  | 07/23/2025 18:18 |
| Ethylbenzene                  | ND     | 0.0050  | 1  | 07/23/2025 18:18 |
| Ethyl tert-butyl ether (ETBE) | ND     | 0.0050  | 1  | 07/23/2025 18:18 |
| Freon 113                     | ND     | 0.0050  | 1  | 07/23/2025 18:18 |
| Hexachlorobutadiene           | ND     | 0.0050  | 1  | 07/23/2025 18:18 |
| Hexachloroethane              | ND     | 0.0050  | 1  | 07/23/2025 18:18 |
| 2-Hexanone                    | ND     | 0.0050  | 1  | 07/23/2025 18:18 |
| Isopropylbenzene              | ND     | 0.0050  | 1  | 07/23/2025 18:18 |
| 4-Isopropyl toluene           | ND     | 0.0050  | 1  | 07/23/2025 18:18 |
| Methyl-t-butyl ether (MTBE)   | ND     | 0.0050  | 1  | 07/23/2025 18:18 |
| Methylene chloride            | ND     | 0.020   | 1  | 07/23/2025 18:18 |
| 4-Methyl-2-pentanone (MIBK)   | ND     | 0.0050  | 1  | 07/23/2025 18:18 |
| Naphthalene                   | ND     | 0.0050  | 1  | 07/23/2025 18:18 |
| n-Propyl benzene              | ND     | 0.0050  | 1  | 07/23/2025 18:18 |
| Styrene                       | ND     | 0.0050  | 1  | 07/23/2025 18:18 |
| 1,1,1,2-Tetrachloroethane     | ND     | 0.0050  | 1  | 07/23/2025 18:18 |
| 1,1,2,2-Tetrachloroethane     | ND     | 0.0050  | 1  | 07/23/2025 18:18 |
| Tetrachloroethene             | ND     | 0.0050  | 1  | 07/23/2025 18:18 |
| Toluene                       | ND     | 0.0050  | 1  | 07/23/2025 18:18 |
| 1,2,3-Trichlorobenzene        | ND     | 0.0050  | 1  | 07/23/2025 18:18 |
| 1,2,4-Trichlorobenzene        | ND     | 0.0050  | 1  | 07/23/2025 18:18 |
| 1,1,1-Trichloroethane         | ND     | 0.0050  | 1  | 07/23/2025 18:18 |
| 1,1,2-Trichloroethane         | ND     | 0.0050  | 1  | 07/23/2025 18:18 |
| Trichloroethene               | ND     | 0.0050  | 1  | 07/23/2025 18:18 |
| Trichlorofluoromethane        | ND     | 0.0050  | 1  | 07/23/2025 18:18 |
| 1,2,3-Trichloropropane        | ND     | 0.00025 | 1  | 07/23/2025 18:18 |
| 1,2,4-Trimethylbenzene        | ND     | 0.0050  | 1  | 07/23/2025 18:18 |
| 1,3,5-Trimethylbenzene        | ND     | 0.0050  | 1  | 07/23/2025 18:18 |
| Vinyl Chloride                | ND     | 0.00025 | 1  | 07/23/2025 18:18 |
| m,p-Xylene                    | ND     | 0.0050  | 1  | 07/23/2025 18:18 |
| o-Xylene                      | ND     | 0.0050  | 1  | 07/23/2025 18:18 |
| Xylenes, Total                | ND     | 0.0050  | 1  | 07/23/2025 18:18 |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/18/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg

### Volatile Organics

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-08-3   | 2507B37-021A | Soil   | 07/16/2025 11:38 | GC38 07232518.D | 321720   |

| Analytes             | Result         | RL            | DE        | Date Analyzed    |
|----------------------|----------------|---------------|-----------|------------------|
| <u>Surrogates</u>    | <u>REC (%)</u> | <u>Limits</u> | <u>DE</u> |                  |
| Dibromofluoromethane | 87             | 70-140        | 1         | 07/23/2025 18:18 |
| Toluene-d8           | 109            | 70-140        | 1         | 07/23/2025 18:18 |
| 4-BFB                | 93             | 70-140        | 1         | 07/23/2025 18:18 |
| Benzene-d6           | 100            | 50-140        | 1         | 07/23/2025 18:18 |
| Ethylbenzene-d10     | 110            | 50-140        | 1         | 07/23/2025 18:18 |
| 1,2-DCB-d4           | 73             | 40-140        | 1         | 07/23/2025 18:18 |

Analyst(s): TW



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID                     | Lab ID       | Matrix | Date Collected   |                  | Instrument      | Batch ID |
|-------------------------------|--------------|--------|------------------|------------------|-----------------|----------|
| SB-01-1                       | 2507B37-001A | Soil   | 07/15/2025 12:11 |                  | GC48 07232510.D | 321778   |
| Analytes                      | Result       | RL     | DE               | Date Analyzed    |                 |          |
| Acenaphthene                  | ND           | 0.0013 | 1                | 07/23/2025 13:57 |                 |          |
| Acenaphthylene                | ND           | 0.0013 | 1                | 07/23/2025 13:57 |                 |          |
| Acetochlor                    | ND           | 0.25   | 1                | 07/23/2025 13:57 |                 |          |
| Anthracene                    | ND           | 0.0013 | 1                | 07/23/2025 13:57 |                 |          |
| Benzidine                     | ND           | 1.2    | 1                | 07/23/2025 13:57 |                 |          |
| Benzo (a) anthracene          | ND           | 0.012  | 1                | 07/23/2025 13:57 |                 |          |
| Benzo (a) pyrene              | 0.012        | 0.0013 | 1                | 07/23/2025 13:57 |                 |          |
| Benzo (b) fluoranthene        | 0.012        | 0.0025 | 1                | 07/23/2025 13:57 |                 |          |
| Benzo (g,h,i) perylene        | 0.019        | 0.0025 | 1                | 07/23/2025 13:57 |                 |          |
| Benzo (k) fluoranthene        | 0.0088       | 0.0025 | 1                | 07/23/2025 13:57 |                 |          |
| Benzoic Acid                  | ND           | 1.2    | 1                | 07/23/2025 13:57 |                 |          |
| Benzyl Alcohol                | ND           | 1.2    | 1                | 07/23/2025 13:57 |                 |          |
| 1,1-Biphenyl                  | ND           | 0.0050 | 1                | 07/23/2025 13:57 |                 |          |
| Bis (2-chloroethoxy) Methane  | ND           | 0.25   | 1                | 07/23/2025 13:57 |                 |          |
| Bis (2-chloroethyl) Ether     | ND           | 0.0013 | 1                | 07/23/2025 13:57 |                 |          |
| Bis (2-chloroisopropyl) Ether | ND           | 0.0025 | 1                | 07/23/2025 13:57 |                 |          |
| Bis (2-ethylhexyl) Adipate    | ND           | 0.25   | 1                | 07/23/2025 13:57 |                 |          |
| Bis (2-ethylhexyl) Phthalate  | ND           | 0.062  | 1                | 07/23/2025 13:57 |                 |          |
| 4-Bromophenyl Phenyl Ether    | ND           | 0.25   | 1                | 07/23/2025 13:57 |                 |          |
| Butylbenzyl Phthalate         | ND           | 0.062  | 1                | 07/23/2025 13:57 |                 |          |
| 4-Chloroaniline               | ND           | 0.0013 | 1                | 07/23/2025 13:57 |                 |          |
| 4-Chloro-3-methylphenol       | ND           | 0.25   | 1                | 07/23/2025 13:57 |                 |          |
| 2-Chloronaphthalene           | ND           | 0.25   | 1                | 07/23/2025 13:57 |                 |          |
| 2-Chlorophenol                | ND           | 0.012  | 1                | 07/23/2025 13:57 |                 |          |
| 4-Chlorophenyl Phenyl Ether   | ND           | 0.25   | 1                | 07/23/2025 13:57 |                 |          |
| Chrysene                      | 0.0067       | 0.0013 | 1                | 07/23/2025 13:57 |                 |          |
| Dibenzo (a,h) anthracene      | ND           | 0.0025 | 1                | 07/23/2025 13:57 |                 |          |
| Dibenzofuran                  | ND           | 0.0013 | 1                | 07/23/2025 13:57 |                 |          |
| Di-n-butyl Phthalate          | ND           | 0.062  | 1                | 07/23/2025 13:57 |                 |          |
| 1,2-Dichlorobenzene           | ND           | 0.25   | 1                | 07/23/2025 13:57 |                 |          |
| 1,3-Dichlorobenzene           | ND           | 0.25   | 1                | 07/23/2025 13:57 |                 |          |
| 1,4-Dichlorobenzene           | ND           | 0.25   | 1                | 07/23/2025 13:57 |                 |          |
| 3,3-Dichlorobenzidine         | ND           | 0.0013 | 1                | 07/23/2025 13:57 |                 |          |
| 2,4-Dichlorophenol            | ND           | 0.0025 | 1                | 07/23/2025 13:57 |                 |          |
| 2,6-Dichlorophenol            | ND           | 0.012  | 1                | 07/23/2025 13:57 |                 |          |
| Diethyl Phthalate             | ND           | 0.012  | 1                | 07/23/2025 13:57 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID                       | Lab ID       | Matrix | Date Collected   |                  | Instrument      | Batch ID |
|---------------------------------|--------------|--------|------------------|------------------|-----------------|----------|
| SB-01-1                         | 2507B37-001A | Soil   | 07/15/2025 12:11 |                  | GC48 07232510.D | 321778   |
| Analytes                        | Result       | RL     | DE               | Date Analyzed    |                 |          |
| 2,4-Dimethylphenol              | ND           | 0.25   | 1                | 07/23/2025 13:57 |                 |          |
| Dimethyl Phthalate              | ND           | 0.0025 | 1                | 07/23/2025 13:57 |                 |          |
| 4,6-Dinitro-2-methylphenol      | ND           | 1.2    | 1                | 07/23/2025 13:57 |                 |          |
| 2,4-Dinitrophenol               | ND           | 0.25   | 1                | 07/23/2025 13:57 |                 |          |
| 2,4-Dinitrotoluene              | ND           | 0.012  | 1                | 07/23/2025 13:57 |                 |          |
| 2,6-Dinitrotoluene              | ND           | 0.012  | 1                | 07/23/2025 13:57 |                 |          |
| Di-n-octyl Phthalate            | ND           | 0.62   | 1                | 07/23/2025 13:57 |                 |          |
| 1,2-Diphenylhydrazine           | ND           | 0.25   | 1                | 07/23/2025 13:57 |                 |          |
| Fluoranthene                    | 0.0092       | 0.0025 | 1                | 07/23/2025 13:57 |                 |          |
| Fluorene                        | ND           | 0.0025 | 1                | 07/23/2025 13:57 |                 |          |
| Hexachlorobenzene               | ND           | 0.0013 | 1                | 07/23/2025 13:57 |                 |          |
| Hexachlorobutadiene             | ND           | 0.0013 | 1                | 07/23/2025 13:57 |                 |          |
| Hexachlorocyclopentadiene       | ND           | 1.2    | 1                | 07/23/2025 13:57 |                 |          |
| Hexachloroethane                | ND           | 0.0025 | 1                | 07/23/2025 13:57 |                 |          |
| Indeno (1,2,3-cd) pyrene        | 0.0090       | 0.0025 | 1                | 07/23/2025 13:57 |                 |          |
| Isophorone                      | ND           | 0.25   | 1                | 07/23/2025 13:57 |                 |          |
| 1-Methylnaphthalene             | ND           | 0.0013 | 1                | 07/23/2025 13:57 |                 |          |
| 2-Methylnaphthalene             | 0.0016       | 0.0013 | 1                | 07/23/2025 13:57 |                 |          |
| 2-Methylphenol (o-Cresol)       | ND           | 0.25   | 1                | 07/23/2025 13:57 |                 |          |
| 3 & 4-Methylphenol (m,p-Cresol) | ND           | 0.25   | 1                | 07/23/2025 13:57 |                 |          |
| Naphthalene                     | ND           | 0.0025 | 1                | 07/23/2025 13:57 |                 |          |
| 2-Nitroaniline                  | ND           | 1.2    | 1                | 07/23/2025 13:57 |                 |          |
| 3-Nitroaniline                  | ND           | 1.2    | 1                | 07/23/2025 13:57 |                 |          |
| 4-Nitroaniline                  | ND           | 1.2    | 1                | 07/23/2025 13:57 |                 |          |
| Nitrobenzene                    | ND           | 0.25   | 1                | 07/23/2025 13:57 |                 |          |
| 2-Nitrophenol                   | ND           | 1.2    | 1                | 07/23/2025 13:57 |                 |          |
| 4-Nitrophenol                   | ND           | 1.2    | 1                | 07/23/2025 13:57 |                 |          |
| N-Nitrosodiphenylamine          | ND           | 0.25   | 1                | 07/23/2025 13:57 |                 |          |
| N-Nitrosodi-n-propylamine       | ND           | 0.25   | 1                | 07/23/2025 13:57 |                 |          |
| Pentachlorophenol               | ND           | 0.062  | 1                | 07/23/2025 13:57 |                 |          |
| Phenanthrene                    | 0.0079       | 0.0013 | 1                | 07/23/2025 13:57 |                 |          |
| Phenol                          | ND           | 0.010  | 1                | 07/23/2025 13:57 |                 |          |
| Pyrene                          | 0.013        | 0.0013 | 1                | 07/23/2025 13:57 |                 |          |
| Pyridine                        | ND           | 0.25   | 1                | 07/23/2025 13:57 |                 |          |
| 1,2,4-Trichlorobenzene          | ND           | 0.25   | 1                | 07/23/2025 13:57 |                 |          |
| 2,4,5-Trichlorophenol           | ND           | 0.0025 | 1                | 07/23/2025 13:57 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-01-1   | 2507B37-001A | Soil   | 07/15/2025 12:11 | GC48 07232510.D | 321778   |

| Analytes                  | Result | RL     | DE | Date Analyzed    |
|---------------------------|--------|--------|----|------------------|
| 2,4,6-Trichlorophenol     | ND     | 0.0025 | 1  | 07/23/2025 13:57 |
| N-Nitrosodimethylamine    | ND     | 0.25   | 1  | 07/23/2025 13:57 |
| 2,3,4,6-Tetrachlorophenol | ND     | 0.25   | 1  | 07/23/2025 13:57 |

| Surrogates           | REC (%) | Limits | DE | Date Analyzed    |
|----------------------|---------|--------|----|------------------|
| 2-Fluorophenol       | 76      | 60-130 | 1  | 07/23/2025 13:57 |
| Phenol-d5            | 74      | 60-130 | 1  | 07/23/2025 13:57 |
| Nitrobenzene-d5      | 75      | 60-130 | 1  | 07/23/2025 13:57 |
| 2-Fluorobiphenyl     | 72      | 60-130 | 1  | 07/23/2025 13:57 |
| 2,4,6-Tribromophenol | 71      | 50-130 | 1  | 07/23/2025 13:57 |
| 4-Terphenyl-d14      | 74      | 50-130 | 1  | 07/23/2025 13:57 |

**Analyst(s):** SPA

**Analytical Comments:** h5



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID                     | Lab ID       | Matrix | Date Collected   |                  | Instrument      | Batch ID |
|-------------------------------|--------------|--------|------------------|------------------|-----------------|----------|
| SB-01-9.5                     | 2507B37-002A | Soil   | 07/15/2025 12:42 |                  | GC47 07222530.D | 321778   |
| Analytes                      | Result       | RL     | DE               | Date Analyzed    |                 |          |
| Acenaphthene                  | ND           | 0.013  | 10               | 07/22/2025 23:04 |                 |          |
| Acenaphthylene                | ND           | 0.013  | 10               | 07/22/2025 23:04 |                 |          |
| Acetochlor                    | ND           | 2.5    | 10               | 07/22/2025 23:04 |                 |          |
| Anthracene                    | ND           | 0.013  | 10               | 07/22/2025 23:04 |                 |          |
| Benzidine                     | ND           | 12     | 10               | 07/22/2025 23:04 |                 |          |
| Benzo (a) anthracene          | ND           | 0.12   | 10               | 07/22/2025 23:04 |                 |          |
| Benzo (a) pyrene              | ND           | 0.013  | 10               | 07/22/2025 23:04 |                 |          |
| Benzo (b) fluoranthene        | ND           | 0.025  | 10               | 07/22/2025 23:04 |                 |          |
| Benzo (g,h,i) perylene        | ND           | 0.025  | 10               | 07/22/2025 23:04 |                 |          |
| Benzo (k) fluoranthene        | ND           | 0.025  | 10               | 07/22/2025 23:04 |                 |          |
| Benzoic Acid                  | ND           | 12     | 10               | 07/22/2025 23:04 |                 |          |
| Benzyl Alcohol                | ND           | 12     | 10               | 07/22/2025 23:04 |                 |          |
| 1,1-Biphenyl                  | ND           | 0.050  | 10               | 07/22/2025 23:04 |                 |          |
| Bis (2-chloroethoxy) Methane  | ND           | 2.5    | 10               | 07/22/2025 23:04 |                 |          |
| Bis (2-chloroethyl) Ether     | ND           | 0.013  | 10               | 07/22/2025 23:04 |                 |          |
| Bis (2-chloroisopropyl) Ether | ND           | 0.025  | 10               | 07/22/2025 23:04 |                 |          |
| Bis (2-ethylhexyl) Adipate    | ND           | 2.5    | 10               | 07/22/2025 23:04 |                 |          |
| Bis (2-ethylhexyl) Phthalate  | ND           | 0.62   | 10               | 07/22/2025 23:04 |                 |          |
| 4-Bromophenyl Phenyl Ether    | ND           | 2.5    | 10               | 07/22/2025 23:04 |                 |          |
| Butylbenzyl Phthalate         | ND           | 0.62   | 10               | 07/22/2025 23:04 |                 |          |
| 4-Chloroaniline               | ND           | 0.013  | 10               | 07/22/2025 23:04 |                 |          |
| 4-Chloro-3-methylphenol       | ND           | 2.5    | 10               | 07/22/2025 23:04 |                 |          |
| 2-Chloronaphthalene           | ND           | 2.5    | 10               | 07/22/2025 23:04 |                 |          |
| 2-Chlorophenol                | ND           | 0.12   | 10               | 07/22/2025 23:04 |                 |          |
| 4-Chlorophenyl Phenyl Ether   | ND           | 2.5    | 10               | 07/22/2025 23:04 |                 |          |
| Chrysene                      | ND           | 0.013  | 10               | 07/22/2025 23:04 |                 |          |
| Dibenzo (a,h) anthracene      | ND           | 0.025  | 10               | 07/22/2025 23:04 |                 |          |
| Dibenzofuran                  | ND           | 0.013  | 10               | 07/22/2025 23:04 |                 |          |
| Di-n-butyl Phthalate          | ND           | 0.62   | 10               | 07/22/2025 23:04 |                 |          |
| 1,2-Dichlorobenzene           | ND           | 2.5    | 10               | 07/22/2025 23:04 |                 |          |
| 1,3-Dichlorobenzene           | ND           | 2.5    | 10               | 07/22/2025 23:04 |                 |          |
| 1,4-Dichlorobenzene           | ND           | 2.5    | 10               | 07/22/2025 23:04 |                 |          |
| 3,3-Dichlorobenzidine         | ND           | 0.013  | 10               | 07/22/2025 23:04 |                 |          |
| 2,4-Dichlorophenol            | ND           | 0.025  | 10               | 07/22/2025 23:04 |                 |          |
| 2,6-Dichlorophenol            | ND           | 0.12   | 10               | 07/22/2025 23:04 |                 |          |
| Diethyl Phthalate             | ND           | 0.12   | 10               | 07/22/2025 23:04 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID                       | Lab ID       | Matrix | Date Collected   |                  | Instrument      | Batch ID |
|---------------------------------|--------------|--------|------------------|------------------|-----------------|----------|
| SB-01-9.5                       | 2507B37-002A | Soil   | 07/15/2025 12:42 |                  | GC47 07222530.D | 321778   |
| Analytes                        | Result       | RL     | DE               | Date Analyzed    |                 |          |
| 2,4-Dimethylphenol              | ND           | 2.5    | 10               | 07/22/2025 23:04 |                 |          |
| Dimethyl Phthalate              | ND           | 0.025  | 10               | 07/22/2025 23:04 |                 |          |
| 4,6-Dinitro-2-methylphenol      | ND           | 12     | 10               | 07/22/2025 23:04 |                 |          |
| 2,4-Dinitrophenol               | ND           | 2.5    | 10               | 07/22/2025 23:04 |                 |          |
| 2,4-Dinitrotoluene              | ND           | 0.12   | 10               | 07/22/2025 23:04 |                 |          |
| 2,6-Dinitrotoluene              | ND           | 0.12   | 10               | 07/22/2025 23:04 |                 |          |
| Di-n-octyl Phthalate            | ND           | 6.2    | 10               | 07/22/2025 23:04 |                 |          |
| 1,2-Diphenylhydrazine           | ND           | 2.5    | 10               | 07/22/2025 23:04 |                 |          |
| Fluoranthene                    | ND           | 0.025  | 10               | 07/22/2025 23:04 |                 |          |
| Fluorene                        | ND           | 0.025  | 10               | 07/22/2025 23:04 |                 |          |
| Hexachlorobenzene               | ND           | 0.013  | 10               | 07/22/2025 23:04 |                 |          |
| Hexachlorobutadiene             | ND           | 0.013  | 10               | 07/22/2025 23:04 |                 |          |
| Hexachlorocyclopentadiene       | ND           | 12     | 10               | 07/22/2025 23:04 |                 |          |
| Hexachloroethane                | ND           | 0.025  | 10               | 07/22/2025 23:04 |                 |          |
| Indeno (1,2,3-cd) pyrene        | ND           | 0.025  | 10               | 07/22/2025 23:04 |                 |          |
| Isophorone                      | ND           | 2.5    | 10               | 07/22/2025 23:04 |                 |          |
| 1-Methylnaphthalene             | ND           | 0.013  | 10               | 07/22/2025 23:04 |                 |          |
| 2-Methylnaphthalene             | ND           | 0.013  | 10               | 07/22/2025 23:04 |                 |          |
| 2-Methylphenol (o-Cresol)       | ND           | 2.5    | 10               | 07/22/2025 23:04 |                 |          |
| 3 & 4-Methylphenol (m,p-Cresol) | ND           | 2.5    | 10               | 07/22/2025 23:04 |                 |          |
| Naphthalene                     | ND           | 0.025  | 10               | 07/22/2025 23:04 |                 |          |
| 2-Nitroaniline                  | ND           | 12     | 10               | 07/22/2025 23:04 |                 |          |
| 3-Nitroaniline                  | ND           | 12     | 10               | 07/22/2025 23:04 |                 |          |
| 4-Nitroaniline                  | ND           | 12     | 10               | 07/22/2025 23:04 |                 |          |
| Nitrobenzene                    | ND           | 2.5    | 10               | 07/22/2025 23:04 |                 |          |
| 2-Nitrophenol                   | ND           | 12     | 10               | 07/22/2025 23:04 |                 |          |
| 4-Nitrophenol                   | ND           | 12     | 10               | 07/22/2025 23:04 |                 |          |
| N-Nitrosodiphenylamine          | ND           | 2.5    | 10               | 07/22/2025 23:04 |                 |          |
| N-Nitrosodi-n-propylamine       | ND           | 2.5    | 10               | 07/22/2025 23:04 |                 |          |
| Pentachlorophenol               | ND           | 0.62   | 10               | 07/22/2025 23:04 |                 |          |
| Phenanthrene                    | ND           | 0.013  | 10               | 07/22/2025 23:04 |                 |          |
| Phenol                          | ND           | 0.10   | 10               | 07/22/2025 23:04 |                 |          |
| Pyrene                          | ND           | 0.013  | 10               | 07/22/2025 23:04 |                 |          |
| Pyridine                        | ND           | 2.5    | 10               | 07/22/2025 23:04 |                 |          |
| 1,2,4-Trichlorobenzene          | ND           | 2.5    | 10               | 07/22/2025 23:04 |                 |          |
| 2,4,5-Trichlorophenol           | ND           | 0.025  | 10               | 07/22/2025 23:04 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-01-9.5 | 2507B37-002A | Soil   | 07/15/2025 12:42 | GC47 07222530.D | 321778   |

| Analytes                  | Result | RL    | DE | Date Analyzed    |
|---------------------------|--------|-------|----|------------------|
| 2,4,6-Trichlorophenol     | ND     | 0.025 | 10 | 07/22/2025 23:04 |
| N-Nitrosodimethylamine    | ND     | 2.5   | 10 | 07/22/2025 23:04 |
| 2,3,4,6-Tetrachlorophenol | ND     | 2.5   | 10 | 07/22/2025 23:04 |

| Surrogates           | REC (%) | Limits | DE | Date Analyzed    |
|----------------------|---------|--------|----|------------------|
| 2-Fluorophenol       | 82      | 60-130 | 10 | 07/22/2025 23:04 |
| Phenol-d5            | 82      | 60-130 | 10 | 07/22/2025 23:04 |
| Nitrobenzene-d5      | 71      | 60-130 | 10 | 07/22/2025 23:04 |
| 2-Fluorobiphenyl     | 76      | 60-130 | 10 | 07/22/2025 23:04 |
| 2,4,6-Tribromophenol | 61      | 50-130 | 10 | 07/22/2025 23:04 |
| 4-Terphenyl-d14      | 87      | 50-130 | 10 | 07/22/2025 23:04 |

**Analyst(s):** LAT

**Analytical Comments:** a3,h5



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID                     | Lab ID       | Matrix | Date Collected   |                  | Instrument      | Batch ID |
|-------------------------------|--------------|--------|------------------|------------------|-----------------|----------|
| SB-02-1                       | 2507B37-003A | Soil   | 07/15/2025 09:29 |                  | GC47 07232513.D | 321778   |
| Analytes                      | Result       | RL     | DE               | Date Analyzed    |                 |          |
| Acenaphthene                  | ND           | 0.0013 | 1                | 07/23/2025 15:42 |                 |          |
| Acenaphthylene                | ND           | 0.0013 | 1                | 07/23/2025 15:42 |                 |          |
| Acetochlor                    | ND           | 0.25   | 1                | 07/23/2025 15:42 |                 |          |
| Anthracene                    | ND           | 0.0013 | 1                | 07/23/2025 15:42 |                 |          |
| Benzidine                     | ND           | 1.2    | 1                | 07/23/2025 15:42 |                 |          |
| Benzo (a) anthracene          | ND           | 0.012  | 1                | 07/23/2025 15:42 |                 |          |
| Benzo (a) pyrene              | 0.0021       | 0.0013 | 1                | 07/23/2025 15:42 |                 |          |
| Benzo (b) fluoranthene        | 0.0036       | 0.0025 | 1                | 07/23/2025 15:42 |                 |          |
| Benzo (g,h,i) perylene        | 0.0033       | 0.0025 | 1                | 07/23/2025 15:42 |                 |          |
| Benzo (k) fluoranthene        | ND           | 0.0025 | 1                | 07/23/2025 15:42 |                 |          |
| Benzoic Acid                  | ND           | 1.2    | 1                | 07/23/2025 15:42 |                 |          |
| Benzyl Alcohol                | ND           | 1.2    | 1                | 07/23/2025 15:42 |                 |          |
| 1,1-Biphenyl                  | ND           | 0.0050 | 1                | 07/23/2025 15:42 |                 |          |
| Bis (2-chloroethoxy) Methane  | ND           | 0.25   | 1                | 07/23/2025 15:42 |                 |          |
| Bis (2-chloroethyl) Ether     | ND           | 0.0013 | 1                | 07/23/2025 15:42 |                 |          |
| Bis (2-chloroisopropyl) Ether | ND           | 0.0025 | 1                | 07/23/2025 15:42 |                 |          |
| Bis (2-ethylhexyl) Adipate    | ND           | 0.25   | 1                | 07/23/2025 15:42 |                 |          |
| Bis (2-ethylhexyl) Phthalate  | ND           | 0.062  | 1                | 07/23/2025 15:42 |                 |          |
| 4-Bromophenyl Phenyl Ether    | ND           | 0.25   | 1                | 07/23/2025 15:42 |                 |          |
| Butylbenzyl Phthalate         | ND           | 0.062  | 1                | 07/23/2025 15:42 |                 |          |
| 4-Chloroaniline               | ND           | 0.0013 | 1                | 07/23/2025 15:42 |                 |          |
| 4-Chloro-3-methylphenol       | ND           | 0.25   | 1                | 07/23/2025 15:42 |                 |          |
| 2-Chloronaphthalene           | ND           | 0.25   | 1                | 07/23/2025 15:42 |                 |          |
| 2-Chlorophenol                | ND           | 0.012  | 1                | 07/23/2025 15:42 |                 |          |
| 4-Chlorophenyl Phenyl Ether   | ND           | 0.25   | 1                | 07/23/2025 15:42 |                 |          |
| Chrysene                      | ND           | 0.0013 | 1                | 07/23/2025 15:42 |                 |          |
| Dibenzo (a,h) anthracene      | 0.0026       | 0.0025 | 1                | 07/23/2025 15:42 |                 |          |
| Dibenzofuran                  | ND           | 0.0013 | 1                | 07/23/2025 15:42 |                 |          |
| Di-n-butyl Phthalate          | ND           | 0.062  | 1                | 07/23/2025 15:42 |                 |          |
| 1,2-Dichlorobenzene           | ND           | 0.25   | 1                | 07/23/2025 15:42 |                 |          |
| 1,3-Dichlorobenzene           | ND           | 0.25   | 1                | 07/23/2025 15:42 |                 |          |
| 1,4-Dichlorobenzene           | ND           | 0.25   | 1                | 07/23/2025 15:42 |                 |          |
| 3,3-Dichlorobenzidine         | ND           | 0.0013 | 1                | 07/23/2025 15:42 |                 |          |
| 2,4-Dichlorophenol            | ND           | 0.0025 | 1                | 07/23/2025 15:42 |                 |          |
| 2,6-Dichlorophenol            | ND           | 0.012  | 1                | 07/23/2025 15:42 |                 |          |
| Diethyl Phthalate             | ND           | 0.012  | 1                | 07/23/2025 15:42 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID                       | Lab ID       | Matrix | Date Collected   |                  | Instrument      | Batch ID |
|---------------------------------|--------------|--------|------------------|------------------|-----------------|----------|
| SB-02-1                         | 2507B37-003A | Soil   | 07/15/2025 09:29 |                  | GC47 07232513.D | 321778   |
| Analytes                        | Result       | RL     | DE               | Date Analyzed    |                 |          |
| 2,4-Dimethylphenol              | ND           | 0.25   | 1                | 07/23/2025 15:42 |                 |          |
| Dimethyl Phthalate              | ND           | 0.0025 | 1                | 07/23/2025 15:42 |                 |          |
| 4,6-Dinitro-2-methylphenol      | ND           | 1.2    | 1                | 07/23/2025 15:42 |                 |          |
| 2,4-Dinitrophenol               | ND           | 0.25   | 1                | 07/23/2025 15:42 |                 |          |
| 2,4-Dinitrotoluene              | ND           | 0.012  | 1                | 07/23/2025 15:42 |                 |          |
| 2,6-Dinitrotoluene              | ND           | 0.012  | 1                | 07/23/2025 15:42 |                 |          |
| Di-n-octyl Phthalate            | ND           | 0.62   | 1                | 07/23/2025 15:42 |                 |          |
| 1,2-Diphenylhydrazine           | ND           | 0.25   | 1                | 07/23/2025 15:42 |                 |          |
| Fluoranthene                    | ND           | 0.0025 | 1                | 07/23/2025 15:42 |                 |          |
| Fluorene                        | ND           | 0.0025 | 1                | 07/23/2025 15:42 |                 |          |
| Hexachlorobenzene               | ND           | 0.0013 | 1                | 07/23/2025 15:42 |                 |          |
| Hexachlorobutadiene             | ND           | 0.0013 | 1                | 07/23/2025 15:42 |                 |          |
| Hexachlorocyclopentadiene       | ND           | 1.2    | 1                | 07/23/2025 15:42 |                 |          |
| Hexachloroethane                | ND           | 0.0025 | 1                | 07/23/2025 15:42 |                 |          |
| Indeno (1,2,3-cd) pyrene        | 0.0030       | 0.0025 | 1                | 07/23/2025 15:42 |                 |          |
| Isophorone                      | ND           | 0.25   | 1                | 07/23/2025 15:42 |                 |          |
| 1-Methylnaphthalene             | ND           | 0.0013 | 1                | 07/23/2025 15:42 |                 |          |
| 2-Methylnaphthalene             | ND           | 0.0013 | 1                | 07/23/2025 15:42 |                 |          |
| 2-Methylphenol (o-Cresol)       | ND           | 0.25   | 1                | 07/23/2025 15:42 |                 |          |
| 3 & 4-Methylphenol (m,p-Cresol) | ND           | 0.25   | 1                | 07/23/2025 15:42 |                 |          |
| Naphthalene                     | ND           | 0.0025 | 1                | 07/23/2025 15:42 |                 |          |
| 2-Nitroaniline                  | ND           | 1.2    | 1                | 07/23/2025 15:42 |                 |          |
| 3-Nitroaniline                  | ND           | 1.2    | 1                | 07/23/2025 15:42 |                 |          |
| 4-Nitroaniline                  | ND           | 1.2    | 1                | 07/23/2025 15:42 |                 |          |
| Nitrobenzene                    | ND           | 0.25   | 1                | 07/23/2025 15:42 |                 |          |
| 2-Nitrophenol                   | ND           | 1.2    | 1                | 07/23/2025 15:42 |                 |          |
| 4-Nitrophenol                   | ND           | 1.2    | 1                | 07/23/2025 15:42 |                 |          |
| N-Nitrosodiphenylamine          | ND           | 0.25   | 1                | 07/23/2025 15:42 |                 |          |
| N-Nitrosodi-n-propylamine       | ND           | 0.25   | 1                | 07/23/2025 15:42 |                 |          |
| Pentachlorophenol               | ND           | 0.062  | 1                | 07/23/2025 15:42 |                 |          |
| Phenanthrene                    | 0.0036       | 0.0013 | 1                | 07/23/2025 15:42 |                 |          |
| Phenol                          | ND           | 0.010  | 1                | 07/23/2025 15:42 |                 |          |
| Pyrene                          | 0.0025       | 0.0013 | 1                | 07/23/2025 15:42 |                 |          |
| Pyridine                        | ND           | 0.25   | 1                | 07/23/2025 15:42 |                 |          |
| 1,2,4-Trichlorobenzene          | ND           | 0.25   | 1                | 07/23/2025 15:42 |                 |          |
| 2,4,5-Trichlorophenol           | ND           | 0.0025 | 1                | 07/23/2025 15:42 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-02-1   | 2507B37-003A | Soil   | 07/15/2025 09:29 | GC47 07232513.D | 321778   |

| Analytes                  | Result | RL     | DE | Date Analyzed    |
|---------------------------|--------|--------|----|------------------|
| 2,4,6-Trichlorophenol     | ND     | 0.0025 | 1  | 07/23/2025 15:42 |
| N-Nitrosodimethylamine    | ND     | 0.25   | 1  | 07/23/2025 15:42 |
| 2,3,4,6-Tetrachlorophenol | ND     | 0.25   | 1  | 07/23/2025 15:42 |

| Surrogates           | REC (%) | Limits | DE | Date Analyzed    |
|----------------------|---------|--------|----|------------------|
| 2-Fluorophenol       | 76      | 60-130 | 1  | 07/23/2025 15:42 |
| Phenol-d5            | 78      | 60-130 | 1  | 07/23/2025 15:42 |
| Nitrobenzene-d5      | 81      | 60-130 | 1  | 07/23/2025 15:42 |
| 2-Fluorobiphenyl     | 72      | 60-130 | 1  | 07/23/2025 15:42 |
| 2,4,6-Tribromophenol | 64      | 50-130 | 1  | 07/23/2025 15:42 |
| 4-Terphenyl-d14      | 84      | 50-130 | 1  | 07/23/2025 15:42 |

Analyst(s): LAT

Analytical Comments: h5



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID                     | Lab ID       | Matrix | Date Collected   | Instrument       | Batch ID |
|-------------------------------|--------------|--------|------------------|------------------|----------|
| SB-02-10                      | 2507B37-004A | Soil   | 07/15/2025 09:59 | GC21 07222528.D  | 321778   |
| Analytes                      | Result       | RL     | DE               | Date Analyzed    |          |
| Acenaphthene                  | ND           | 0.0013 | 1                | 07/22/2025 21:32 |          |
| Acenaphthylene                | ND           | 0.0013 | 1                | 07/22/2025 21:32 |          |
| Acetochlor                    | ND           | 0.25   | 1                | 07/22/2025 21:32 |          |
| Anthracene                    | ND           | 0.0013 | 1                | 07/22/2025 21:32 |          |
| Benzidine                     | ND           | 1.2    | 1                | 07/22/2025 21:32 |          |
| Benzo (a) anthracene          | ND           | 0.012  | 1                | 07/22/2025 21:32 |          |
| Benzo (a) pyrene              | ND           | 0.0013 | 1                | 07/22/2025 21:32 |          |
| Benzo (b) fluoranthene        | ND           | 0.0025 | 1                | 07/22/2025 21:32 |          |
| Benzo (g,h,i) perylene        | ND           | 0.0025 | 1                | 07/22/2025 21:32 |          |
| Benzo (k) fluoranthene        | ND           | 0.0025 | 1                | 07/22/2025 21:32 |          |
| Benzoic Acid                  | ND           | 1.2    | 1                | 07/22/2025 21:32 |          |
| Benzyl Alcohol                | ND           | 1.2    | 1                | 07/22/2025 21:32 |          |
| 1,1-Biphenyl                  | ND           | 0.0050 | 1                | 07/22/2025 21:32 |          |
| Bis (2-chloroethoxy) Methane  | ND           | 0.25   | 1                | 07/22/2025 21:32 |          |
| Bis (2-chloroethyl) Ether     | ND           | 0.0013 | 1                | 07/22/2025 21:32 |          |
| Bis (2-chloroisopropyl) Ether | ND           | 0.0025 | 1                | 07/22/2025 21:32 |          |
| Bis (2-ethylhexyl) Adipate    | ND           | 0.25   | 1                | 07/22/2025 21:32 |          |
| Bis (2-ethylhexyl) Phthalate  | ND           | 0.062  | 1                | 07/22/2025 21:32 |          |
| 4-Bromophenyl Phenyl Ether    | ND           | 0.25   | 1                | 07/22/2025 21:32 |          |
| Butylbenzyl Phthalate         | ND           | 0.062  | 1                | 07/22/2025 21:32 |          |
| 4-Chloroaniline               | ND           | 0.0013 | 1                | 07/22/2025 21:32 |          |
| 4-Chloro-3-methylphenol       | ND           | 0.25   | 1                | 07/22/2025 21:32 |          |
| 2-Chloronaphthalene           | ND           | 0.25   | 1                | 07/22/2025 21:32 |          |
| 2-Chlorophenol                | ND           | 0.012  | 1                | 07/22/2025 21:32 |          |
| 4-Chlorophenyl Phenyl Ether   | ND           | 0.25   | 1                | 07/22/2025 21:32 |          |
| Chrysene                      | ND           | 0.0013 | 1                | 07/22/2025 21:32 |          |
| Dibenzo (a,h) anthracene      | ND           | 0.0025 | 1                | 07/22/2025 21:32 |          |
| Dibenzofuran                  | ND           | 0.0013 | 1                | 07/22/2025 21:32 |          |
| Di-n-butyl Phthalate          | ND           | 0.062  | 1                | 07/22/2025 21:32 |          |
| 1,2-Dichlorobenzene           | ND           | 0.25   | 1                | 07/22/2025 21:32 |          |
| 1,3-Dichlorobenzene           | ND           | 0.25   | 1                | 07/22/2025 21:32 |          |
| 1,4-Dichlorobenzene           | ND           | 0.25   | 1                | 07/22/2025 21:32 |          |
| 3,3-Dichlorobenzidine         | ND           | 0.0013 | 1                | 07/22/2025 21:32 |          |
| 2,4-Dichlorophenol            | ND           | 0.0025 | 1                | 07/22/2025 21:32 |          |
| 2,6-Dichlorophenol            | ND           | 0.012  | 1                | 07/22/2025 21:32 |          |
| Diethyl Phthalate             | ND           | 0.012  | 1                | 07/22/2025 21:32 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID                       | Lab ID       | Matrix | Date Collected   |                  | Instrument      | Batch ID |
|---------------------------------|--------------|--------|------------------|------------------|-----------------|----------|
| SB-02-10                        | 2507B37-004A | Soil   | 07/15/2025 09:59 |                  | GC21 07222528.D | 321778   |
| Analytes                        | Result       | RL     | DE               | Date Analyzed    |                 |          |
| 2,4-Dimethylphenol              | ND           | 0.25   | 1                | 07/22/2025 21:32 |                 |          |
| Dimethyl Phthalate              | ND           | 0.0025 | 1                | 07/22/2025 21:32 |                 |          |
| 4,6-Dinitro-2-methylphenol      | ND           | 1.2    | 1                | 07/22/2025 21:32 |                 |          |
| 2,4-Dinitrophenol               | ND           | 0.25   | 1                | 07/22/2025 21:32 |                 |          |
| 2,4-Dinitrotoluene              | ND           | 0.012  | 1                | 07/22/2025 21:32 |                 |          |
| 2,6-Dinitrotoluene              | ND           | 0.012  | 1                | 07/22/2025 21:32 |                 |          |
| Di-n-octyl Phthalate            | ND           | 0.62   | 1                | 07/22/2025 21:32 |                 |          |
| 1,2-Diphenylhydrazine           | ND           | 0.25   | 1                | 07/22/2025 21:32 |                 |          |
| Fluoranthene                    | ND           | 0.0025 | 1                | 07/22/2025 21:32 |                 |          |
| Fluorene                        | ND           | 0.0025 | 1                | 07/22/2025 21:32 |                 |          |
| Hexachlorobenzene               | ND           | 0.0013 | 1                | 07/22/2025 21:32 |                 |          |
| Hexachlorobutadiene             | ND           | 0.0013 | 1                | 07/22/2025 21:32 |                 |          |
| Hexachlorocyclopentadiene       | ND           | 1.2    | 1                | 07/22/2025 21:32 |                 |          |
| Hexachloroethane                | ND           | 0.0025 | 1                | 07/22/2025 21:32 |                 |          |
| Indeno (1,2,3-cd) pyrene        | ND           | 0.0025 | 1                | 07/22/2025 21:32 |                 |          |
| Isophorone                      | ND           | 0.25   | 1                | 07/22/2025 21:32 |                 |          |
| 1-Methylnaphthalene             | ND           | 0.0013 | 1                | 07/22/2025 21:32 |                 |          |
| 2-Methylnaphthalene             | ND           | 0.0013 | 1                | 07/22/2025 21:32 |                 |          |
| 2-Methylphenol (o-Cresol)       | ND           | 0.25   | 1                | 07/22/2025 21:32 |                 |          |
| 3 & 4-Methylphenol (m,p-Cresol) | ND           | 0.25   | 1                | 07/22/2025 21:32 |                 |          |
| Naphthalene                     | ND           | 0.0025 | 1                | 07/22/2025 21:32 |                 |          |
| 2-Nitroaniline                  | ND           | 1.2    | 1                | 07/22/2025 21:32 |                 |          |
| 3-Nitroaniline                  | ND           | 1.2    | 1                | 07/22/2025 21:32 |                 |          |
| 4-Nitroaniline                  | ND           | 1.2    | 1                | 07/22/2025 21:32 |                 |          |
| Nitrobenzene                    | ND           | 0.25   | 1                | 07/22/2025 21:32 |                 |          |
| 2-Nitrophenol                   | ND           | 1.2    | 1                | 07/22/2025 21:32 |                 |          |
| 4-Nitrophenol                   | ND           | 1.2    | 1                | 07/22/2025 21:32 |                 |          |
| N-Nitrosodiphenylamine          | ND           | 0.25   | 1                | 07/22/2025 21:32 |                 |          |
| N-Nitrosodi-n-propylamine       | ND           | 0.25   | 1                | 07/22/2025 21:32 |                 |          |
| Pentachlorophenol               | ND           | 0.062  | 1                | 07/22/2025 21:32 |                 |          |
| Phenanthrene                    | ND           | 0.0013 | 1                | 07/22/2025 21:32 |                 |          |
| Phenol                          | ND           | 0.010  | 1                | 07/22/2025 21:32 |                 |          |
| Pyrene                          | ND           | 0.0013 | 1                | 07/22/2025 21:32 |                 |          |
| Pyridine                        | ND           | 0.25   | 1                | 07/22/2025 21:32 |                 |          |
| 1,2,4-Trichlorobenzene          | ND           | 0.25   | 1                | 07/22/2025 21:32 |                 |          |
| 2,4,5-Trichlorophenol           | ND           | 0.0025 | 1                | 07/22/2025 21:32 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-02-10  | 2507B37-004A | Soil   | 07/15/2025 09:59 | GC21 07222528.D | 321778   |

| Analytes                  | Result | RL     | DE | Date Analyzed    |
|---------------------------|--------|--------|----|------------------|
| 2,4,6-Trichlorophenol     | ND     | 0.0025 | 1  | 07/22/2025 21:32 |
| N-Nitrosodimethylamine    | ND     | 0.25   | 1  | 07/22/2025 21:32 |
| 2,3,4,6-Tetrachlorophenol | ND     | 0.25   | 1  | 07/22/2025 21:32 |

| Surrogates           | REC (%) | Limits | DE | Date Analyzed    |
|----------------------|---------|--------|----|------------------|
| 2-Fluorophenol       | 94      | 60-130 | 1  | 07/22/2025 21:32 |
| Phenol-d5            | 92      | 60-130 | 1  | 07/22/2025 21:32 |
| Nitrobenzene-d5      | 101     | 60-130 | 1  | 07/22/2025 21:32 |
| 2-Fluorobiphenyl     | 82      | 60-130 | 1  | 07/22/2025 21:32 |
| 2,4,6-Tribromophenol | 87      | 50-130 | 1  | 07/22/2025 21:32 |
| 4-Terphenyl-d14      | 76      | 50-130 | 1  | 07/22/2025 21:32 |

**Analyst(s):** LAT

**Analytical Comments:** h5



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID                     | Lab ID       | Matrix | Date Collected   |                  | Instrument      | Batch ID |
|-------------------------------|--------------|--------|------------------|------------------|-----------------|----------|
| SB-03-1                       | 2507B37-005A | Soil   | 07/15/2025 15:09 |                  | GC47 07232515.D | 321880   |
| Analytes                      | Result       | RL     | DE               | Date Analyzed    |                 |          |
| Acenaphthene                  | ND           | 0.0013 | 1                | 07/23/2025 16:36 |                 |          |
| Acenaphthylene                | ND           | 0.0013 | 1                | 07/23/2025 16:36 |                 |          |
| Acetochlor                    | ND           | 0.25   | 1                | 07/23/2025 16:36 |                 |          |
| Anthracene                    | ND           | 0.0013 | 1                | 07/23/2025 16:36 |                 |          |
| Benzidine                     | ND           | 1.2    | 1                | 07/23/2025 16:36 |                 |          |
| Benzo (a) anthracene          | ND           | 0.012  | 1                | 07/23/2025 16:36 |                 |          |
| Benzo (a) pyrene              | 0.0016       | 0.0013 | 1                | 07/23/2025 16:36 |                 |          |
| Benzo (b) fluoranthene        | 0.0032       | 0.0025 | 1                | 07/23/2025 16:36 |                 |          |
| Benzo (g,h,i) perylene        | ND           | 0.0025 | 1                | 07/23/2025 16:36 |                 |          |
| Benzo (k) fluoranthene        | ND           | 0.0025 | 1                | 07/23/2025 16:36 |                 |          |
| Benzoic Acid                  | ND           | 1.2    | 1                | 07/23/2025 16:36 |                 |          |
| Benzyl Alcohol                | ND           | 1.2    | 1                | 07/23/2025 16:36 |                 |          |
| 1,1-Biphenyl                  | ND           | 0.0050 | 1                | 07/23/2025 16:36 |                 |          |
| Bis (2-chloroethoxy) Methane  | ND           | 0.25   | 1                | 07/23/2025 16:36 |                 |          |
| Bis (2-chloroethyl) Ether     | ND           | 0.0013 | 1                | 07/23/2025 16:36 |                 |          |
| Bis (2-chloroisopropyl) Ether | ND           | 0.0025 | 1                | 07/23/2025 16:36 |                 |          |
| Bis (2-ethylhexyl) Adipate    | ND           | 0.25   | 1                | 07/23/2025 16:36 |                 |          |
| Bis (2-ethylhexyl) Phthalate  | ND           | 0.062  | 1                | 07/23/2025 16:36 |                 |          |
| 4-Bromophenyl Phenyl Ether    | ND           | 0.25   | 1                | 07/23/2025 16:36 |                 |          |
| Butylbenzyl Phthalate         | ND           | 0.062  | 1                | 07/23/2025 16:36 |                 |          |
| 4-Chloroaniline               | ND           | 0.0013 | 1                | 07/23/2025 16:36 |                 |          |
| 4-Chloro-3-methylphenol       | ND           | 0.25   | 1                | 07/23/2025 16:36 |                 |          |
| 2-Chloronaphthalene           | ND           | 0.25   | 1                | 07/23/2025 16:36 |                 |          |
| 2-Chlorophenol                | ND           | 0.012  | 1                | 07/23/2025 16:36 |                 |          |
| 4-Chlorophenyl Phenyl Ether   | ND           | 0.25   | 1                | 07/23/2025 16:36 |                 |          |
| Chrysene                      | ND           | 0.0013 | 1                | 07/23/2025 16:36 |                 |          |
| Dibenzo (a,h) anthracene      | ND           | 0.0025 | 1                | 07/23/2025 16:36 |                 |          |
| Dibenzofuran                  | ND           | 0.0013 | 1                | 07/23/2025 16:36 |                 |          |
| Di-n-butyl Phthalate          | ND           | 0.062  | 1                | 07/23/2025 16:36 |                 |          |
| 1,2-Dichlorobenzene           | ND           | 0.25   | 1                | 07/23/2025 16:36 |                 |          |
| 1,3-Dichlorobenzene           | ND           | 0.25   | 1                | 07/23/2025 16:36 |                 |          |
| 1,4-Dichlorobenzene           | ND           | 0.25   | 1                | 07/23/2025 16:36 |                 |          |
| 3,3-Dichlorobenzidine         | ND           | 0.0013 | 1                | 07/23/2025 16:36 |                 |          |
| 2,4-Dichlorophenol            | ND           | 0.0025 | 1                | 07/23/2025 16:36 |                 |          |
| 2,6-Dichlorophenol            | ND           | 0.012  | 1                | 07/23/2025 16:36 |                 |          |
| Diethyl Phthalate             | ND           | 0.012  | 1                | 07/23/2025 16:36 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID                       | Lab ID       | Matrix | Date Collected   |                  | Instrument      | Batch ID |
|---------------------------------|--------------|--------|------------------|------------------|-----------------|----------|
| SB-03-1                         | 2507B37-005A | Soil   | 07/15/2025 15:09 |                  | GC47 07232515.D | 321880   |
| Analytes                        | Result       | RL     | DE               | Date Analyzed    |                 |          |
| 2,4-Dimethylphenol              | ND           | 0.25   | 1                | 07/23/2025 16:36 |                 |          |
| Dimethyl Phthalate              | ND           | 0.0025 | 1                | 07/23/2025 16:36 |                 |          |
| 4,6-Dinitro-2-methylphenol      | ND           | 1.2    | 1                | 07/23/2025 16:36 |                 |          |
| 2,4-Dinitrophenol               | ND           | 0.25   | 1                | 07/23/2025 16:36 |                 |          |
| 2,4-Dinitrotoluene              | ND           | 0.012  | 1                | 07/23/2025 16:36 |                 |          |
| 2,6-Dinitrotoluene              | ND           | 0.012  | 1                | 07/23/2025 16:36 |                 |          |
| Di-n-octyl Phthalate            | ND           | 0.62   | 1                | 07/23/2025 16:36 |                 |          |
| 1,2-Diphenylhydrazine           | ND           | 0.25   | 1                | 07/23/2025 16:36 |                 |          |
| Fluoranthene                    | ND           | 0.0025 | 1                | 07/23/2025 16:36 |                 |          |
| Fluorene                        | ND           | 0.0025 | 1                | 07/23/2025 16:36 |                 |          |
| Hexachlorobenzene               | ND           | 0.0013 | 1                | 07/23/2025 16:36 |                 |          |
| Hexachlorobutadiene             | ND           | 0.0013 | 1                | 07/23/2025 16:36 |                 |          |
| Hexachlorocyclopentadiene       | ND           | 1.2    | 1                | 07/23/2025 16:36 |                 |          |
| Hexachloroethane                | ND           | 0.0025 | 1                | 07/23/2025 16:36 |                 |          |
| Indeno (1,2,3-cd) pyrene        | ND           | 0.0025 | 1                | 07/23/2025 16:36 |                 |          |
| Isophorone                      | ND           | 0.25   | 1                | 07/23/2025 16:36 |                 |          |
| 1-Methylnaphthalene             | ND           | 0.0013 | 1                | 07/23/2025 16:36 |                 |          |
| 2-Methylnaphthalene             | ND           | 0.0013 | 1                | 07/23/2025 16:36 |                 |          |
| 2-Methylphenol (o-Cresol)       | ND           | 0.25   | 1                | 07/23/2025 16:36 |                 |          |
| 3 & 4-Methylphenol (m,p-Cresol) | ND           | 0.25   | 1                | 07/23/2025 16:36 |                 |          |
| Naphthalene                     | ND           | 0.0025 | 1                | 07/23/2025 16:36 |                 |          |
| 2-Nitroaniline                  | ND           | 1.2    | 1                | 07/23/2025 16:36 |                 |          |
| 3-Nitroaniline                  | ND           | 1.2    | 1                | 07/23/2025 16:36 |                 |          |
| 4-Nitroaniline                  | ND           | 1.2    | 1                | 07/23/2025 16:36 |                 |          |
| Nitrobenzene                    | ND           | 0.25   | 1                | 07/23/2025 16:36 |                 |          |
| 2-Nitrophenol                   | ND           | 1.2    | 1                | 07/23/2025 16:36 |                 |          |
| 4-Nitrophenol                   | ND           | 1.2    | 1                | 07/23/2025 16:36 |                 |          |
| N-Nitrosodiphenylamine          | ND           | 0.25   | 1                | 07/23/2025 16:36 |                 |          |
| N-Nitrosodi-n-propylamine       | ND           | 0.25   | 1                | 07/23/2025 16:36 |                 |          |
| Pentachlorophenol               | ND           | 0.062  | 1                | 07/23/2025 16:36 |                 |          |
| Phenanthrene                    | 0.0033       | 0.0013 | 1                | 07/23/2025 16:36 |                 |          |
| Phenol                          | ND           | 0.010  | 1                | 07/23/2025 16:36 |                 |          |
| Pyrene                          | 0.0015       | 0.0013 | 1                | 07/23/2025 16:36 |                 |          |
| Pyridine                        | ND           | 0.25   | 1                | 07/23/2025 16:36 |                 |          |
| 1,2,4-Trichlorobenzene          | ND           | 0.25   | 1                | 07/23/2025 16:36 |                 |          |
| 2,4,5-Trichlorophenol           | ND           | 0.0025 | 1                | 07/23/2025 16:36 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-03-1   | 2507B37-005A | Soil   | 07/15/2025 15:09 | GC47 07232515.D | 321880   |

| Analytes                  | Result | RL     | DE | Date Analyzed    |
|---------------------------|--------|--------|----|------------------|
| 2,4,6-Trichlorophenol     | ND     | 0.0025 | 1  | 07/23/2025 16:36 |
| N-Nitrosodimethylamine    | ND     | 0.25   | 1  | 07/23/2025 16:36 |
| 2,3,4,6-Tetrachlorophenol | ND     | 0.25   | 1  | 07/23/2025 16:36 |

| Surrogates           | REC (%) | Limits | DE | Date Analyzed    |
|----------------------|---------|--------|----|------------------|
| 2-Fluorophenol       | 78      | 60-130 | 1  | 07/23/2025 16:36 |
| Phenol-d5            | 77      | 60-130 | 1  | 07/23/2025 16:36 |
| Nitrobenzene-d5      | 72      | 60-130 | 1  | 07/23/2025 16:36 |
| 2-Fluorobiphenyl     | 62      | 60-130 | 1  | 07/23/2025 16:36 |
| 2,4,6-Tribromophenol | 61      | 50-130 | 1  | 07/23/2025 16:36 |
| 4-Terphenyl-d14      | 77      | 50-130 | 1  | 07/23/2025 16:36 |

**Analyst(s):** LAT

**Analytical Comments:** h5



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-03-10  | 2507B37-006A | Soil   | 07/15/2025 15:09 | GC48 07222523.D | 321880   |

| Analytes                      | Result | RL     | DE | Date Analyzed    |
|-------------------------------|--------|--------|----|------------------|
| Acenaphthene                  | ND     | 0.0013 | 1  | 07/22/2025 19:15 |
| Acenaphthylene                | ND     | 0.0013 | 1  | 07/22/2025 19:15 |
| Acetochlor                    | ND     | 0.25   | 1  | 07/22/2025 19:15 |
| Anthracene                    | ND     | 0.0013 | 1  | 07/22/2025 19:15 |
| Benzidine                     | ND     | 1.2    | 1  | 07/22/2025 19:15 |
| Benzo (a) anthracene          | ND     | 0.012  | 1  | 07/22/2025 19:15 |
| Benzo (a) pyrene              | ND     | 0.0013 | 1  | 07/22/2025 19:15 |
| Benzo (b) fluoranthene        | ND     | 0.0025 | 1  | 07/22/2025 19:15 |
| Benzo (g,h,i) perylene        | ND     | 0.0025 | 1  | 07/22/2025 19:15 |
| Benzo (k) fluoranthene        | ND     | 0.0025 | 1  | 07/22/2025 19:15 |
| Benzoic Acid                  | ND     | 1.2    | 1  | 07/22/2025 19:15 |
| Benzyl Alcohol                | ND     | 1.2    | 1  | 07/22/2025 19:15 |
| 1,1-Biphenyl                  | ND     | 0.0050 | 1  | 07/22/2025 19:15 |
| Bis (2-chloroethoxy) Methane  | ND     | 0.25   | 1  | 07/22/2025 19:15 |
| Bis (2-chloroethyl) Ether     | ND     | 0.0013 | 1  | 07/22/2025 19:15 |
| Bis (2-chloroisopropyl) Ether | ND     | 0.0025 | 1  | 07/22/2025 19:15 |
| Bis (2-ethylhexyl) Adipate    | ND     | 0.25   | 1  | 07/22/2025 19:15 |
| Bis (2-ethylhexyl) Phthalate  | ND     | 0.062  | 1  | 07/22/2025 19:15 |
| 4-Bromophenyl Phenyl Ether    | ND     | 0.25   | 1  | 07/22/2025 19:15 |
| Butylbenzyl Phthalate         | ND     | 0.062  | 1  | 07/22/2025 19:15 |
| 4-Chloroaniline               | ND     | 0.0013 | 1  | 07/22/2025 19:15 |
| 4-Chloro-3-methylphenol       | ND     | 0.25   | 1  | 07/22/2025 19:15 |
| 2-Chloronaphthalene           | ND     | 0.25   | 1  | 07/22/2025 19:15 |
| 2-Chlorophenol                | ND     | 0.012  | 1  | 07/22/2025 19:15 |
| 4-Chlorophenyl Phenyl Ether   | ND     | 0.25   | 1  | 07/22/2025 19:15 |
| Chrysene                      | ND     | 0.0013 | 1  | 07/22/2025 19:15 |
| Dibenzo (a,h) anthracene      | ND     | 0.0025 | 1  | 07/22/2025 19:15 |
| Dibenzofuran                  | ND     | 0.0013 | 1  | 07/22/2025 19:15 |
| Di-n-butyl Phthalate          | ND     | 0.062  | 1  | 07/22/2025 19:15 |
| 1,2-Dichlorobenzene           | ND     | 0.25   | 1  | 07/22/2025 19:15 |
| 1,3-Dichlorobenzene           | ND     | 0.25   | 1  | 07/22/2025 19:15 |
| 1,4-Dichlorobenzene           | ND     | 0.25   | 1  | 07/22/2025 19:15 |
| 3,3-Dichlorobenzidine         | ND     | 0.0013 | 1  | 07/22/2025 19:15 |
| 2,4-Dichlorophenol            | ND     | 0.0025 | 1  | 07/22/2025 19:15 |
| 2,6-Dichlorophenol            | ND     | 0.012  | 1  | 07/22/2025 19:15 |
| Diethyl Phthalate             | ND     | 0.012  | 1  | 07/22/2025 19:15 |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-03-10  | 2507B37-006A | Soil   | 07/15/2025 15:09 | GC48 07222523.D | 321880   |

| Analytes                        | Result | RL     | DE | Date Analyzed    |
|---------------------------------|--------|--------|----|------------------|
| 2,4-Dimethylphenol              | ND     | 0.25   | 1  | 07/22/2025 19:15 |
| Dimethyl Phthalate              | ND     | 0.0025 | 1  | 07/22/2025 19:15 |
| 4,6-Dinitro-2-methylphenol      | ND     | 1.2    | 1  | 07/22/2025 19:15 |
| 2,4-Dinitrophenol               | ND     | 0.25   | 1  | 07/22/2025 19:15 |
| 2,4-Dinitrotoluene              | ND     | 0.012  | 1  | 07/22/2025 19:15 |
| 2,6-Dinitrotoluene              | ND     | 0.012  | 1  | 07/22/2025 19:15 |
| Di-n-octyl Phthalate            | ND     | 0.62   | 1  | 07/22/2025 19:15 |
| 1,2-Diphenylhydrazine           | ND     | 0.25   | 1  | 07/22/2025 19:15 |
| Fluoranthene                    | ND     | 0.0025 | 1  | 07/22/2025 19:15 |
| Fluorene                        | ND     | 0.0025 | 1  | 07/22/2025 19:15 |
| Hexachlorobenzene               | ND     | 0.0013 | 1  | 07/22/2025 19:15 |
| Hexachlorobutadiene             | ND     | 0.0013 | 1  | 07/22/2025 19:15 |
| Hexachlorocyclopentadiene       | ND     | 1.2    | 1  | 07/22/2025 19:15 |
| Hexachloroethane                | ND     | 0.0025 | 1  | 07/22/2025 19:15 |
| Indeno (1,2,3-cd) pyrene        | ND     | 0.0025 | 1  | 07/22/2025 19:15 |
| Isophorone                      | ND     | 0.25   | 1  | 07/22/2025 19:15 |
| 1-Methylnaphthalene             | ND     | 0.0013 | 1  | 07/22/2025 19:15 |
| 2-Methylnaphthalene             | ND     | 0.0013 | 1  | 07/22/2025 19:15 |
| 2-Methylphenol (o-Cresol)       | ND     | 0.25   | 1  | 07/22/2025 19:15 |
| 3 & 4-Methylphenol (m,p-Cresol) | ND     | 0.25   | 1  | 07/22/2025 19:15 |
| Naphthalene                     | ND     | 0.0025 | 1  | 07/22/2025 19:15 |
| 2-Nitroaniline                  | ND     | 1.2    | 1  | 07/22/2025 19:15 |
| 3-Nitroaniline                  | ND     | 1.2    | 1  | 07/22/2025 19:15 |
| 4-Nitroaniline                  | ND     | 1.2    | 1  | 07/22/2025 19:15 |
| Nitrobenzene                    | ND     | 0.25   | 1  | 07/22/2025 19:15 |
| 2-Nitrophenol                   | ND     | 1.2    | 1  | 07/22/2025 19:15 |
| 4-Nitrophenol                   | ND     | 1.2    | 1  | 07/22/2025 19:15 |
| N-Nitrosodiphenylamine          | ND     | 0.25   | 1  | 07/22/2025 19:15 |
| N-Nitrosodi-n-propylamine       | ND     | 0.25   | 1  | 07/22/2025 19:15 |
| Pentachlorophenol               | ND     | 0.062  | 1  | 07/22/2025 19:15 |
| Phenanthrene                    | ND     | 0.0013 | 1  | 07/22/2025 19:15 |
| Phenol                          | ND     | 0.010  | 1  | 07/22/2025 19:15 |
| Pyrene                          | ND     | 0.0013 | 1  | 07/22/2025 19:15 |
| Pyridine                        | ND     | 0.25   | 1  | 07/22/2025 19:15 |
| 1,2,4-Trichlorobenzene          | ND     | 0.25   | 1  | 07/22/2025 19:15 |
| 2,4,5-Trichlorophenol           | ND     | 0.0025 | 1  | 07/22/2025 19:15 |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-03-10  | 2507B37-006A | Soil   | 07/15/2025 15:09 | GC48 07222523.D | 321880   |

| Analytes                  | Result | RL     | DE | Date Analyzed    |
|---------------------------|--------|--------|----|------------------|
| 2,4,6-Trichlorophenol     | ND     | 0.0025 | 1  | 07/22/2025 19:15 |
| N-Nitrosodimethylamine    | ND     | 0.25   | 1  | 07/22/2025 19:15 |
| 2,3,4,6-Tetrachlorophenol | ND     | 0.25   | 1  | 07/22/2025 19:15 |

| Surrogates           | REC (%) | Limits | DE | Date Analyzed    |
|----------------------|---------|--------|----|------------------|
| 2-Fluorophenol       | 83      | 60-130 | 1  | 07/22/2025 19:15 |
| Phenol-d5            | 76      | 60-130 | 1  | 07/22/2025 19:15 |
| Nitrobenzene-d5      | 81      | 60-130 | 1  | 07/22/2025 19:15 |
| 2-Fluorobiphenyl     | 84      | 60-130 | 1  | 07/22/2025 19:15 |
| 2,4,6-Tribromophenol | 75      | 50-130 | 1  | 07/22/2025 19:15 |
| 4-Terphenyl-d14      | 79      | 50-130 | 1  | 07/22/2025 19:15 |

**Analyst(s):** LAT

**Analytical Comments:** h5





## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID                     | Lab ID       | Matrix | Date Collected   |                  | Instrument      | Batch ID |
|-------------------------------|--------------|--------|------------------|------------------|-----------------|----------|
| SB-04-1                       | 2507B37-007A | Soil   | 07/16/2025 10:40 |                  | GC47 07232516.D | 321880   |
| Analytes                      | Result       | RL     | DE               | Date Analyzed    |                 |          |
| Acenaphthene                  | ND           | 0.0013 | 1                | 07/23/2025 17:03 |                 |          |
| Acenaphthylene                | 0.0016       | 0.0013 | 1                | 07/23/2025 17:03 |                 |          |
| Acetochlor                    | ND           | 0.25   | 1                | 07/23/2025 17:03 |                 |          |
| Anthracene                    | ND           | 0.0013 | 1                | 07/23/2025 17:03 |                 |          |
| Benzidine                     | ND           | 1.2    | 1                | 07/23/2025 17:03 |                 |          |
| Benzo (a) anthracene          | ND           | 0.012  | 1                | 07/23/2025 17:03 |                 |          |
| Benzo (a) pyrene              | 0.012        | 0.0013 | 1                | 07/23/2025 17:03 |                 |          |
| Benzo (b) fluoranthene        | 0.014        | 0.0025 | 1                | 07/23/2025 17:03 |                 |          |
| Benzo (g,h,i) perylene        | 0.015        | 0.0025 | 1                | 07/23/2025 17:03 |                 |          |
| Benzo (k) fluoranthene        | 0.0055       | 0.0025 | 1                | 07/23/2025 17:03 |                 |          |
| Benzoic Acid                  | ND           | 1.2    | 1                | 07/23/2025 17:03 |                 |          |
| Benzyl Alcohol                | ND           | 1.2    | 1                | 07/23/2025 17:03 |                 |          |
| 1,1-Biphenyl                  | ND           | 0.0050 | 1                | 07/23/2025 17:03 |                 |          |
| Bis (2-chloroethoxy) Methane  | ND           | 0.25   | 1                | 07/23/2025 17:03 |                 |          |
| Bis (2-chloroethyl) Ether     | ND           | 0.0013 | 1                | 07/23/2025 17:03 |                 |          |
| Bis (2-chloroisopropyl) Ether | ND           | 0.0025 | 1                | 07/23/2025 17:03 |                 |          |
| Bis (2-ethylhexyl) Adipate    | ND           | 0.25   | 1                | 07/23/2025 17:03 |                 |          |
| Bis (2-ethylhexyl) Phthalate  | ND           | 0.062  | 1                | 07/23/2025 17:03 |                 |          |
| 4-Bromophenyl Phenyl Ether    | ND           | 0.25   | 1                | 07/23/2025 17:03 |                 |          |
| Butylbenzyl Phthalate         | ND           | 0.062  | 1                | 07/23/2025 17:03 |                 |          |
| 4-Chloroaniline               | ND           | 0.0013 | 1                | 07/23/2025 17:03 |                 |          |
| 4-Chloro-3-methylphenol       | ND           | 0.25   | 1                | 07/23/2025 17:03 |                 |          |
| 2-Chloronaphthalene           | ND           | 0.25   | 1                | 07/23/2025 17:03 |                 |          |
| 2-Chlorophenol                | ND           | 0.012  | 1                | 07/23/2025 17:03 |                 |          |
| 4-Chlorophenyl Phenyl Ether   | ND           | 0.25   | 1                | 07/23/2025 17:03 |                 |          |
| Chrysene                      | 0.0079       | 0.0013 | 1                | 07/23/2025 17:03 |                 |          |
| Dibenzo (a,h) anthracene      | 0.0038       | 0.0025 | 1                | 07/23/2025 17:03 |                 |          |
| Dibenzofuran                  | ND           | 0.0013 | 1                | 07/23/2025 17:03 |                 |          |
| Di-n-butyl Phthalate          | ND           | 0.062  | 1                | 07/23/2025 17:03 |                 |          |
| 1,2-Dichlorobenzene           | ND           | 0.25   | 1                | 07/23/2025 17:03 |                 |          |
| 1,3-Dichlorobenzene           | ND           | 0.25   | 1                | 07/23/2025 17:03 |                 |          |
| 1,4-Dichlorobenzene           | ND           | 0.25   | 1                | 07/23/2025 17:03 |                 |          |
| 3,3-Dichlorobenzidine         | ND           | 0.0013 | 1                | 07/23/2025 17:03 |                 |          |
| 2,4-Dichlorophenol            | ND           | 0.0025 | 1                | 07/23/2025 17:03 |                 |          |
| 2,6-Dichlorophenol            | ND           | 0.012  | 1                | 07/23/2025 17:03 |                 |          |
| Diethyl Phthalate             | ND           | 0.012  | 1                | 07/23/2025 17:03 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID                       | Lab ID       | Matrix | Date Collected   |                  | Instrument      | Batch ID |
|---------------------------------|--------------|--------|------------------|------------------|-----------------|----------|
| SB-04-1                         | 2507B37-007A | Soil   | 07/16/2025 10:40 |                  | GC47 07232516.D | 321880   |
| Analytes                        | Result       | RL     | DE               | Date Analyzed    |                 |          |
| 2,4-Dimethylphenol              | ND           | 0.25   | 1                | 07/23/2025 17:03 |                 |          |
| Dimethyl Phthalate              | ND           | 0.0025 | 1                | 07/23/2025 17:03 |                 |          |
| 4,6-Dinitro-2-methylphenol      | ND           | 1.2    | 1                | 07/23/2025 17:03 |                 |          |
| 2,4-Dinitrophenol               | ND           | 0.25   | 1                | 07/23/2025 17:03 |                 |          |
| 2,4-Dinitrotoluene              | ND           | 0.012  | 1                | 07/23/2025 17:03 |                 |          |
| 2,6-Dinitrotoluene              | ND           | 0.012  | 1                | 07/23/2025 17:03 |                 |          |
| Di-n-octyl Phthalate            | ND           | 0.62   | 1                | 07/23/2025 17:03 |                 |          |
| 1,2-Diphenylhydrazine           | ND           | 0.25   | 1                | 07/23/2025 17:03 |                 |          |
| Fluoranthene                    | 0.010        | 0.0025 | 1                | 07/23/2025 17:03 |                 |          |
| Fluorene                        | ND           | 0.0025 | 1                | 07/23/2025 17:03 |                 |          |
| Hexachlorobenzene               | ND           | 0.0013 | 1                | 07/23/2025 17:03 |                 |          |
| Hexachlorobutadiene             | ND           | 0.0013 | 1                | 07/23/2025 17:03 |                 |          |
| Hexachlorocyclopentadiene       | ND           | 1.2    | 1                | 07/23/2025 17:03 |                 |          |
| Hexachloroethane                | ND           | 0.0025 | 1                | 07/23/2025 17:03 |                 |          |
| Indeno (1,2,3-cd) pyrene        | 0.010        | 0.0025 | 1                | 07/23/2025 17:03 |                 |          |
| Isophorone                      | ND           | 0.25   | 1                | 07/23/2025 17:03 |                 |          |
| 1-Methylnaphthalene             | ND           | 0.0013 | 1                | 07/23/2025 17:03 |                 |          |
| 2-Methylnaphthalene             | ND           | 0.0013 | 1                | 07/23/2025 17:03 |                 |          |
| 2-Methylphenol (o-Cresol)       | ND           | 0.25   | 1                | 07/23/2025 17:03 |                 |          |
| 3 & 4-Methylphenol (m,p-Cresol) | ND           | 0.25   | 1                | 07/23/2025 17:03 |                 |          |
| Naphthalene                     | ND           | 0.0025 | 1                | 07/23/2025 17:03 |                 |          |
| 2-Nitroaniline                  | ND           | 1.2    | 1                | 07/23/2025 17:03 |                 |          |
| 3-Nitroaniline                  | ND           | 1.2    | 1                | 07/23/2025 17:03 |                 |          |
| 4-Nitroaniline                  | ND           | 1.2    | 1                | 07/23/2025 17:03 |                 |          |
| Nitrobenzene                    | ND           | 0.25   | 1                | 07/23/2025 17:03 |                 |          |
| 2-Nitrophenol                   | ND           | 1.2    | 1                | 07/23/2025 17:03 |                 |          |
| 4-Nitrophenol                   | ND           | 1.2    | 1                | 07/23/2025 17:03 |                 |          |
| N-Nitrosodiphenylamine          | ND           | 0.25   | 1                | 07/23/2025 17:03 |                 |          |
| N-Nitrosodi-n-propylamine       | ND           | 0.25   | 1                | 07/23/2025 17:03 |                 |          |
| Pentachlorophenol               | ND           | 0.062  | 1                | 07/23/2025 17:03 |                 |          |
| Phenanthrene                    | 0.0039       | 0.0013 | 1                | 07/23/2025 17:03 |                 |          |
| Phenol                          | ND           | 0.010  | 1                | 07/23/2025 17:03 |                 |          |
| Pyrene                          | 0.012        | 0.0013 | 1                | 07/23/2025 17:03 |                 |          |
| Pyridine                        | ND           | 0.25   | 1                | 07/23/2025 17:03 |                 |          |
| 1,2,4-Trichlorobenzene          | ND           | 0.25   | 1                | 07/23/2025 17:03 |                 |          |
| 2,4,5-Trichlorophenol           | ND           | 0.0025 | 1                | 07/23/2025 17:03 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-04-1   | 2507B37-007A | Soil   | 07/16/2025 10:40 | GC47 07232516.D | 321880   |

| Analytes                  | Result | RL     | DE | Date Analyzed    |
|---------------------------|--------|--------|----|------------------|
| 2,4,6-Trichlorophenol     | ND     | 0.0025 | 1  | 07/23/2025 17:03 |
| N-Nitrosodimethylamine    | ND     | 0.25   | 1  | 07/23/2025 17:03 |
| 2,3,4,6-Tetrachlorophenol | ND     | 0.25   | 1  | 07/23/2025 17:03 |

| Surrogates           | REC (%) | Limits | DE | Date Analyzed    |
|----------------------|---------|--------|----|------------------|
| 2-Fluorophenol       | 72      | 60-130 | 1  | 07/23/2025 17:03 |
| Phenol-d5            | 77      | 60-130 | 1  | 07/23/2025 17:03 |
| Nitrobenzene-d5      | 69      | 60-130 | 1  | 07/23/2025 17:03 |
| 2-Fluorobiphenyl     | 64      | 60-130 | 1  | 07/23/2025 17:03 |
| 2,4,6-Tribromophenol | 55      | 50-130 | 1  | 07/23/2025 17:03 |
| 4-Terphenyl-d14      | 83      | 50-130 | 1  | 07/23/2025 17:03 |

**Analyst(s):** LAT

**Analytical Comments:** h5



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID                     | Lab ID        | Matrix | Date Collected      | Instrument      | Batch ID             |
|-------------------------------|---------------|--------|---------------------|-----------------|----------------------|
| SB-04-5                       | 2507B37-008A  | Soil   | 07/16/2025 10:41    | GC47 07222531.D | 321880               |
| <u>Analytes</u>               | <u>Result</u> |        | <u>RL</u> <u>DE</u> |                 | <u>Date Analyzed</u> |
| Acenaphthene                  | ND            |        | 0.0026 2            |                 | 07/22/2025 23:31     |
| Acenaphthylene                | 0.042         |        | 0.0026 2            |                 | 07/22/2025 23:31     |
| Acetochlor                    | ND            |        | 0.50 2              |                 | 07/22/2025 23:31     |
| Anthracene                    | 0.012         |        | 0.0026 2            |                 | 07/22/2025 23:31     |
| Benidine                      | ND            |        | 2.5 2               |                 | 07/22/2025 23:31     |
| Benzo (a) anthracene          | 0.15          |        | 0.025 2             |                 | 07/22/2025 23:31     |
| Benzo (a) pyrene              | 0.19          |        | 0.0026 2            |                 | 07/22/2025 23:31     |
| Benzo (b) fluoranthene        | 0.16          |        | 0.0050 2            |                 | 07/22/2025 23:31     |
| Benzo (g,h,i) perylene        | 0.12          |        | 0.0050 2            |                 | 07/22/2025 23:31     |
| Benzo (k) fluoranthene        | 0.081         |        | 0.0050 2            |                 | 07/22/2025 23:31     |
| Benzoic Acid                  | ND            |        | 2.5 2               |                 | 07/22/2025 23:31     |
| Benzyl Alcohol                | ND            |        | 2.5 2               |                 | 07/22/2025 23:31     |
| 1,1-Biphenyl                  | ND            |        | 0.010 2             |                 | 07/22/2025 23:31     |
| Bis (2-chloroethoxy) Methane  | ND            |        | 0.50 2              |                 | 07/22/2025 23:31     |
| Bis (2-chloroethyl) Ether     | ND            |        | 0.0026 2            |                 | 07/22/2025 23:31     |
| Bis (2-chloroisopropyl) Ether | ND            |        | 0.0050 2            |                 | 07/22/2025 23:31     |
| Bis (2-ethylhexyl) Adipate    | ND            |        | 0.50 2              |                 | 07/22/2025 23:31     |
| Bis (2-ethylhexyl) Phthalate  | ND            |        | 0.12 2              |                 | 07/22/2025 23:31     |
| 4-Bromophenyl Phenyl Ether    | ND            |        | 0.50 2              |                 | 07/22/2025 23:31     |
| Butylbenzyl Phthalate         | ND            |        | 0.12 2              |                 | 07/22/2025 23:31     |
| 4-Chloroaniline               | ND            |        | 0.0026 2            |                 | 07/22/2025 23:31     |
| 4-Chloro-3-methylphenol       | ND            |        | 0.50 2              |                 | 07/22/2025 23:31     |
| 2-Chloronaphthalene           | ND            |        | 0.50 2              |                 | 07/22/2025 23:31     |
| 2-Chlorophenol                | ND            |        | 0.025 2             |                 | 07/22/2025 23:31     |
| 4-Chlorophenyl Phenyl Ether   | ND            |        | 0.50 2              |                 | 07/22/2025 23:31     |
| Chrysene                      | 0.15          |        | 0.0026 2            |                 | 07/22/2025 23:31     |
| Dibenzo (a,h) anthracene      | 0.026         |        | 0.0050 2            |                 | 07/22/2025 23:31     |
| Dibenzofuran                  | ND            |        | 0.0026 2            |                 | 07/22/2025 23:31     |
| Di-n-butyl Phthalate          | ND            |        | 0.12 2              |                 | 07/22/2025 23:31     |
| 1,2-Dichlorobenzene           | ND            |        | 0.50 2              |                 | 07/22/2025 23:31     |
| 1,3-Dichlorobenzene           | ND            |        | 0.50 2              |                 | 07/22/2025 23:31     |
| 1,4-Dichlorobenzene           | ND            |        | 0.50 2              |                 | 07/22/2025 23:31     |
| 3,3-Dichlorobenzidine         | ND            |        | 0.0026 2            |                 | 07/22/2025 23:31     |
| 2,4-Dichlorophenol            | ND            |        | 0.0050 2            |                 | 07/22/2025 23:31     |
| 2,6-Dichlorophenol            | ND            |        | 0.025 2             |                 | 07/22/2025 23:31     |
| Diethyl Phthalate             | ND            |        | 0.025 2             |                 | 07/22/2025 23:31     |

(Cont.)



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID                       | Lab ID       | Matrix | Date Collected   |                  | Instrument      | Batch ID |
|---------------------------------|--------------|--------|------------------|------------------|-----------------|----------|
| SB-04-5                         | 2507B37-008A | Soil   | 07/16/2025 10:41 |                  | GC47 07222531.D | 321880   |
| Analytes                        | Result       | RL     | DE               | Date Analyzed    |                 |          |
| 2,4-Dimethylphenol              | ND           | 0.50   | 2                | 07/22/2025 23:31 |                 |          |
| Dimethyl Phthalate              | ND           | 0.0050 | 2                | 07/22/2025 23:31 |                 |          |
| 4,6-Dinitro-2-methylphenol      | ND           | 2.5    | 2                | 07/22/2025 23:31 |                 |          |
| 2,4-Dinitrophenol               | ND           | 0.50   | 2                | 07/22/2025 23:31 |                 |          |
| 2,4-Dinitrotoluene              | ND           | 0.025  | 2                | 07/22/2025 23:31 |                 |          |
| 2,6-Dinitrotoluene              | ND           | 0.025  | 2                | 07/22/2025 23:31 |                 |          |
| Di-n-octyl Phthalate            | ND           | 1.2    | 2                | 07/22/2025 23:31 |                 |          |
| 1,2-Diphenylhydrazine           | ND           | 0.50   | 2                | 07/22/2025 23:31 |                 |          |
| Fluoranthene                    | 0.19         | 0.0050 | 2                | 07/22/2025 23:31 |                 |          |
| Fluorene                        | ND           | 0.0050 | 2                | 07/22/2025 23:31 |                 |          |
| Hexachlorobenzene               | ND           | 0.0026 | 2                | 07/22/2025 23:31 |                 |          |
| Hexachlorobutadiene             | ND           | 0.0026 | 2                | 07/22/2025 23:31 |                 |          |
| Hexachlorocyclopentadiene       | ND           | 2.5    | 2                | 07/22/2025 23:31 |                 |          |
| Hexachloroethane                | ND           | 0.0050 | 2                | 07/22/2025 23:31 |                 |          |
| Indeno (1,2,3-cd) pyrene        | 0.092        | 0.0050 | 2                | 07/22/2025 23:31 |                 |          |
| Isophorone                      | ND           | 0.50   | 2                | 07/22/2025 23:31 |                 |          |
| 1-Methylnaphthalene             | ND           | 0.0026 | 2                | 07/22/2025 23:31 |                 |          |
| 2-Methylnaphthalene             | ND           | 0.0026 | 2                | 07/22/2025 23:31 |                 |          |
| 2-Methylphenol (o-Cresol)       | ND           | 0.50   | 2                | 07/22/2025 23:31 |                 |          |
| 3 & 4-Methylphenol (m,p-Cresol) | ND           | 0.50   | 2                | 07/22/2025 23:31 |                 |          |
| Naphthalene                     | ND           | 0.0050 | 2                | 07/22/2025 23:31 |                 |          |
| 2-Nitroaniline                  | ND           | 2.5    | 2                | 07/22/2025 23:31 |                 |          |
| 3-Nitroaniline                  | ND           | 2.5    | 2                | 07/22/2025 23:31 |                 |          |
| 4-Nitroaniline                  | ND           | 2.5    | 2                | 07/22/2025 23:31 |                 |          |
| Nitrobenzene                    | ND           | 0.50   | 2                | 07/22/2025 23:31 |                 |          |
| 2-Nitrophenol                   | ND           | 2.5    | 2                | 07/22/2025 23:31 |                 |          |
| 4-Nitrophenol                   | ND           | 2.5    | 2                | 07/22/2025 23:31 |                 |          |
| N-Nitrosodiphenylamine          | ND           | 0.50   | 2                | 07/22/2025 23:31 |                 |          |
| N-Nitrosodi-n-propylamine       | ND           | 0.50   | 2                | 07/22/2025 23:31 |                 |          |
| Pentachlorophenol               | ND           | 0.12   | 2                | 07/22/2025 23:31 |                 |          |
| Phenanthrene                    | 0.029        | 0.0026 | 2                | 07/22/2025 23:31 |                 |          |
| Phenol                          | ND           | 0.020  | 2                | 07/22/2025 23:31 |                 |          |
| Pyrene                          | 0.25         | 0.0026 | 2                | 07/22/2025 23:31 |                 |          |
| Pyridine                        | ND           | 0.50   | 2                | 07/22/2025 23:31 |                 |          |
| 1,2,4-Trichlorobenzene          | ND           | 0.50   | 2                | 07/22/2025 23:31 |                 |          |
| 2,4,5-Trichlorophenol           | ND           | 0.0050 | 2                | 07/22/2025 23:31 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-04-5   | 2507B37-008A | Soil   | 07/16/2025 10:41 | GC47 07222531.D | 321880   |

| Analytes                  | Result | RL     | DE | Date Analyzed    |
|---------------------------|--------|--------|----|------------------|
| 2,4,6-Trichlorophenol     | ND     | 0.0050 | 2  | 07/22/2025 23:31 |
| N-Nitrosodimethylamine    | ND     | 0.50   | 2  | 07/22/2025 23:31 |
| 2,3,4,6-Tetrachlorophenol | ND     | 0.50   | 2  | 07/22/2025 23:31 |

| Surrogates           | REC (%) | Limits | DE | Date Analyzed    |
|----------------------|---------|--------|----|------------------|
| 2-Fluorophenol       | 75      | 60-130 | 2  | 07/22/2025 23:31 |
| Phenol-d5            | 72      | 60-130 | 2  | 07/22/2025 23:31 |
| Nitrobenzene-d5      | 71      | 60-130 | 2  | 07/22/2025 23:31 |
| 2-Fluorobiphenyl     | 71      | 60-130 | 2  | 07/22/2025 23:31 |
| 2,4,6-Tribromophenol | 50      | 50-130 | 2  | 07/22/2025 23:31 |
| 4-Terphenyl-d14      | 76      | 50-130 | 2  | 07/22/2025 23:31 |

**Analyst(s):** LAT

**Analytical Comments:** h5



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID                     | Lab ID       | Matrix | Date Collected   |                  | Instrument      | Batch ID |
|-------------------------------|--------------|--------|------------------|------------------|-----------------|----------|
| SB-05-1                       | 2507B37-009A | Soil   | 07/16/2025 08:12 |                  | GC47 07222532.D | 321880   |
| Analytes                      | Result       | RL     | DE               | Date Analyzed    |                 |          |
| Acenaphthene                  | ND           | 0.0026 | 2                | 07/22/2025 23:58 |                 |          |
| Acenaphthylene                | 0.0039       | 0.0026 | 2                | 07/22/2025 23:58 |                 |          |
| Acetochlor                    | ND           | 0.50   | 2                | 07/22/2025 23:58 |                 |          |
| Anthracene                    | ND           | 0.0026 | 2                | 07/22/2025 23:58 |                 |          |
| Benzidine                     | ND           | 2.5    | 2                | 07/22/2025 23:58 |                 |          |
| Benzo (a) anthracene          | ND           | 0.025  | 2                | 07/22/2025 23:58 |                 |          |
| Benzo (a) pyrene              | 0.052        | 0.0026 | 2                | 07/22/2025 23:58 |                 |          |
| Benzo (b) fluoranthene        | 0.049        | 0.0050 | 2                | 07/22/2025 23:58 |                 |          |
| Benzo (g,h,i) perylene        | 0.065        | 0.0050 | 2                | 07/22/2025 23:58 |                 |          |
| Benzo (k) fluoranthene        | 0.020        | 0.0050 | 2                | 07/22/2025 23:58 |                 |          |
| Benzoic Acid                  | ND           | 2.5    | 2                | 07/22/2025 23:58 |                 |          |
| Benzyl Alcohol                | ND           | 2.5    | 2                | 07/22/2025 23:58 |                 |          |
| 1,1-Biphenyl                  | ND           | 0.010  | 2                | 07/22/2025 23:58 |                 |          |
| Bis (2-chloroethoxy) Methane  | ND           | 0.50   | 2                | 07/22/2025 23:58 |                 |          |
| Bis (2-chloroethyl) Ether     | ND           | 0.0026 | 2                | 07/22/2025 23:58 |                 |          |
| Bis (2-chloroisopropyl) Ether | ND           | 0.0050 | 2                | 07/22/2025 23:58 |                 |          |
| Bis (2-ethylhexyl) Adipate    | ND           | 0.50   | 2                | 07/22/2025 23:58 |                 |          |
| Bis (2-ethylhexyl) Phthalate  | ND           | 0.12   | 2                | 07/22/2025 23:58 |                 |          |
| 4-Bromophenyl Phenyl Ether    | ND           | 0.50   | 2                | 07/22/2025 23:58 |                 |          |
| Butylbenzyl Phthalate         | ND           | 0.12   | 2                | 07/22/2025 23:58 |                 |          |
| 4-Chloroaniline               | ND           | 0.0026 | 2                | 07/22/2025 23:58 |                 |          |
| 4-Chloro-3-methylphenol       | ND           | 0.50   | 2                | 07/22/2025 23:58 |                 |          |
| 2-Chloronaphthalene           | ND           | 0.50   | 2                | 07/22/2025 23:58 |                 |          |
| 2-Chlorophenol                | ND           | 0.025  | 2                | 07/22/2025 23:58 |                 |          |
| 4-Chlorophenyl Phenyl Ether   | ND           | 0.50   | 2                | 07/22/2025 23:58 |                 |          |
| Chrysene                      | 0.026        | 0.0026 | 2                | 07/22/2025 23:58 |                 |          |
| Dibenzo (a,h) anthracene      | 0.0090       | 0.0050 | 2                | 07/22/2025 23:58 |                 |          |
| Dibenzofuran                  | ND           | 0.0026 | 2                | 07/22/2025 23:58 |                 |          |
| Di-n-butyl Phthalate          | ND           | 0.12   | 2                | 07/22/2025 23:58 |                 |          |
| 1,2-Dichlorobenzene           | ND           | 0.50   | 2                | 07/22/2025 23:58 |                 |          |
| 1,3-Dichlorobenzene           | ND           | 0.50   | 2                | 07/22/2025 23:58 |                 |          |
| 1,4-Dichlorobenzene           | ND           | 0.50   | 2                | 07/22/2025 23:58 |                 |          |
| 3,3-Dichlorobenzidine         | ND           | 0.0026 | 2                | 07/22/2025 23:58 |                 |          |
| 2,4-Dichlorophenol            | ND           | 0.0050 | 2                | 07/22/2025 23:58 |                 |          |
| 2,6-Dichlorophenol            | ND           | 0.025  | 2                | 07/22/2025 23:58 |                 |          |
| Diethyl Phthalate             | ND           | 0.025  | 2                | 07/22/2025 23:58 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID                       | Lab ID       | Matrix | Date Collected   |                  | Instrument      | Batch ID |
|---------------------------------|--------------|--------|------------------|------------------|-----------------|----------|
| SB-05-1                         | 2507B37-009A | Soil   | 07/16/2025 08:12 |                  | GC47 07222532.D | 321880   |
| Analytes                        | Result       | RL     | DE               | Date Analyzed    |                 |          |
| 2,4-Dimethylphenol              | ND           | 0.50   | 2                | 07/22/2025 23:58 |                 |          |
| Dimethyl Phthalate              | ND           | 0.0050 | 2                | 07/22/2025 23:58 |                 |          |
| 4,6-Dinitro-2-methylphenol      | ND           | 2.5    | 2                | 07/22/2025 23:58 |                 |          |
| 2,4-Dinitrophenol               | ND           | 0.50   | 2                | 07/22/2025 23:58 |                 |          |
| 2,4-Dinitrotoluene              | ND           | 0.025  | 2                | 07/22/2025 23:58 |                 |          |
| 2,6-Dinitrotoluene              | ND           | 0.025  | 2                | 07/22/2025 23:58 |                 |          |
| Di-n-octyl Phthalate            | ND           | 1.2    | 2                | 07/22/2025 23:58 |                 |          |
| 1,2-Diphenylhydrazine           | ND           | 0.50   | 2                | 07/22/2025 23:58 |                 |          |
| Fluoranthene                    | 0.053        | 0.0050 | 2                | 07/22/2025 23:58 |                 |          |
| Fluorene                        | ND           | 0.0050 | 2                | 07/22/2025 23:58 |                 |          |
| Hexachlorobenzene               | ND           | 0.0026 | 2                | 07/22/2025 23:58 |                 |          |
| Hexachlorobutadiene             | ND           | 0.0026 | 2                | 07/22/2025 23:58 |                 |          |
| Hexachlorocyclopentadiene       | ND           | 2.5    | 2                | 07/22/2025 23:58 |                 |          |
| Hexachloroethane                | ND           | 0.0050 | 2                | 07/22/2025 23:58 |                 |          |
| Indeno (1,2,3-cd) pyrene        | 0.040        | 0.0050 | 2                | 07/22/2025 23:58 |                 |          |
| Isophorone                      | ND           | 0.50   | 2                | 07/22/2025 23:58 |                 |          |
| 1-Methylnaphthalene             | ND           | 0.0026 | 2                | 07/22/2025 23:58 |                 |          |
| 2-Methylnaphthalene             | ND           | 0.0026 | 2                | 07/22/2025 23:58 |                 |          |
| 2-Methylphenol (o-Cresol)       | ND           | 0.50   | 2                | 07/22/2025 23:58 |                 |          |
| 3 & 4-Methylphenol (m,p-Cresol) | ND           | 0.50   | 2                | 07/22/2025 23:58 |                 |          |
| Naphthalene                     | ND           | 0.0050 | 2                | 07/22/2025 23:58 |                 |          |
| 2-Nitroaniline                  | ND           | 2.5    | 2                | 07/22/2025 23:58 |                 |          |
| 3-Nitroaniline                  | ND           | 2.5    | 2                | 07/22/2025 23:58 |                 |          |
| 4-Nitroaniline                  | ND           | 2.5    | 2                | 07/22/2025 23:58 |                 |          |
| Nitrobenzene                    | ND           | 0.50   | 2                | 07/22/2025 23:58 |                 |          |
| 2-Nitrophenol                   | ND           | 2.5    | 2                | 07/22/2025 23:58 |                 |          |
| 4-Nitrophenol                   | ND           | 2.5    | 2                | 07/22/2025 23:58 |                 |          |
| N-Nitrosodiphenylamine          | ND           | 0.50   | 2                | 07/22/2025 23:58 |                 |          |
| N-Nitrosodi-n-propylamine       | ND           | 0.50   | 2                | 07/22/2025 23:58 |                 |          |
| Pentachlorophenol               | ND           | 0.12   | 2                | 07/22/2025 23:58 |                 |          |
| Phenanthrene                    | 0.015        | 0.0026 | 2                | 07/22/2025 23:58 |                 |          |
| Phenol                          | ND           | 0.020  | 2                | 07/22/2025 23:58 |                 |          |
| Pyrene                          | 0.061        | 0.0026 | 2                | 07/22/2025 23:58 |                 |          |
| Pyridine                        | ND           | 0.50   | 2                | 07/22/2025 23:58 |                 |          |
| 1,2,4-Trichlorobenzene          | ND           | 0.50   | 2                | 07/22/2025 23:58 |                 |          |
| 2,4,5-Trichlorophenol           | ND           | 0.0050 | 2                | 07/22/2025 23:58 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-05-1   | 2507B37-009A | Soil   | 07/16/2025 08:12 | GC47 07222532.D | 321880   |

| Analytes                  | Result | RL     | DE | Date Analyzed    |
|---------------------------|--------|--------|----|------------------|
| 2,4,6-Trichlorophenol     | ND     | 0.0050 | 2  | 07/22/2025 23:58 |
| N-Nitrosodimethylamine    | ND     | 0.50   | 2  | 07/22/2025 23:58 |
| 2,3,4,6-Tetrachlorophenol | ND     | 0.50   | 2  | 07/22/2025 23:58 |

| Surrogates           | REC (%) | Limits | DE | Date Analyzed    |
|----------------------|---------|--------|----|------------------|
| 2-Fluorophenol       | 76      | 60-130 | 2  | 07/22/2025 23:58 |
| Phenol-d5            | 75      | 60-130 | 2  | 07/22/2025 23:58 |
| Nitrobenzene-d5      | 72      | 60-130 | 2  | 07/22/2025 23:58 |
| 2-Fluorobiphenyl     | 71      | 60-130 | 2  | 07/22/2025 23:58 |
| 2,4,6-Tribromophenol | 57      | 50-130 | 2  | 07/22/2025 23:58 |
| 4-Terphenyl-d14      | 84      | 50-130 | 2  | 07/22/2025 23:58 |

**Analyst(s):** LAT

**Analytical Comments:** h5



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID                     | Lab ID       | Matrix | Date Collected   |                  | Instrument      | Batch ID |
|-------------------------------|--------------|--------|------------------|------------------|-----------------|----------|
| SB-05-5                       | 2507B37-010A | Soil   | 07/16/2025 08:25 |                  | GC48 07232508.D | 321880   |
| Analytes                      | Result       | RL     | DE               | Date Analyzed    |                 |          |
| Acenaphthene                  | ND           | 0.013  | 10               | 07/23/2025 13:04 |                 |          |
| Acenaphthylene                | ND           | 0.013  | 10               | 07/23/2025 13:04 |                 |          |
| Acetochlor                    | ND           | 2.5    | 10               | 07/23/2025 13:04 |                 |          |
| Anthracene                    | ND           | 0.013  | 10               | 07/23/2025 13:04 |                 |          |
| Benzidine                     | ND           | 12     | 10               | 07/23/2025 13:04 |                 |          |
| Benzo (a) anthracene          | ND           | 0.12   | 10               | 07/23/2025 13:04 |                 |          |
| Benzo (a) pyrene              | 0.11         | 0.013  | 10               | 07/23/2025 13:04 |                 |          |
| Benzo (b) fluoranthene        | 0.076        | 0.025  | 10               | 07/23/2025 13:04 |                 |          |
| Benzo (g,h,i) perylene        | 0.52         | 0.025  | 10               | 07/23/2025 13:04 |                 |          |
| Benzo (k) fluoranthene        | 0.053        | 0.025  | 10               | 07/23/2025 13:04 |                 |          |
| Benzoic Acid                  | ND           | 12     | 10               | 07/23/2025 13:04 |                 |          |
| Benzyl Alcohol                | ND           | 12     | 10               | 07/23/2025 13:04 |                 |          |
| 1,1-Biphenyl                  | ND           | 0.050  | 10               | 07/23/2025 13:04 |                 |          |
| Bis (2-chloroethoxy) Methane  | ND           | 2.5    | 10               | 07/23/2025 13:04 |                 |          |
| Bis (2-chloroethyl) Ether     | ND           | 0.013  | 10               | 07/23/2025 13:04 |                 |          |
| Bis (2-chloroisopropyl) Ether | ND           | 0.025  | 10               | 07/23/2025 13:04 |                 |          |
| Bis (2-ethylhexyl) Adipate    | ND           | 2.5    | 10               | 07/23/2025 13:04 |                 |          |
| Bis (2-ethylhexyl) Phthalate  | ND           | 0.62   | 10               | 07/23/2025 13:04 |                 |          |
| 4-Bromophenyl Phenyl Ether    | ND           | 2.5    | 10               | 07/23/2025 13:04 |                 |          |
| Butylbenzyl Phthalate         | ND           | 0.62   | 10               | 07/23/2025 13:04 |                 |          |
| 4-Chloroaniline               | ND           | 0.013  | 10               | 07/23/2025 13:04 |                 |          |
| 4-Chloro-3-methylphenol       | ND           | 2.5    | 10               | 07/23/2025 13:04 |                 |          |
| 2-Chloronaphthalene           | ND           | 2.5    | 10               | 07/23/2025 13:04 |                 |          |
| 2-Chlorophenol                | ND           | 0.12   | 10               | 07/23/2025 13:04 |                 |          |
| 4-Chlorophenyl Phenyl Ether   | ND           | 2.5    | 10               | 07/23/2025 13:04 |                 |          |
| Chrysene                      | 0.041        | 0.013  | 10               | 07/23/2025 13:04 |                 |          |
| Dibenzo (a,h) anthracene      | ND           | 0.025  | 10               | 07/23/2025 13:04 |                 |          |
| Dibenzofuran                  | ND           | 0.013  | 10               | 07/23/2025 13:04 |                 |          |
| Di-n-butyl Phthalate          | ND           | 0.62   | 10               | 07/23/2025 13:04 |                 |          |
| 1,2-Dichlorobenzene           | ND           | 2.5    | 10               | 07/23/2025 13:04 |                 |          |
| 1,3-Dichlorobenzene           | ND           | 2.5    | 10               | 07/23/2025 13:04 |                 |          |
| 1,4-Dichlorobenzene           | ND           | 2.5    | 10               | 07/23/2025 13:04 |                 |          |
| 3,3-Dichlorobenzidine         | ND           | 0.013  | 10               | 07/23/2025 13:04 |                 |          |
| 2,4-Dichlorophenol            | ND           | 0.025  | 10               | 07/23/2025 13:04 |                 |          |
| 2,6-Dichlorophenol            | ND           | 0.12   | 10               | 07/23/2025 13:04 |                 |          |
| Diethyl Phthalate             | ND           | 0.12   | 10               | 07/23/2025 13:04 |                 |          |

(Cont.)



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID                       | Lab ID       | Matrix | Date Collected   |                  | Instrument      | Batch ID |
|---------------------------------|--------------|--------|------------------|------------------|-----------------|----------|
| SB-05-5                         | 2507B37-010A | Soil   | 07/16/2025 08:25 |                  | GC48 07232508.D | 321880   |
| Analytes                        | Result       | RL     | DE               | Date Analyzed    |                 |          |
| 2,4-Dimethylphenol              | ND           | 2.5    | 10               | 07/23/2025 13:04 |                 |          |
| Dimethyl Phthalate              | ND           | 0.025  | 10               | 07/23/2025 13:04 |                 |          |
| 4,6-Dinitro-2-methylphenol      | ND           | 12     | 10               | 07/23/2025 13:04 |                 |          |
| 2,4-Dinitrophenol               | ND           | 2.5    | 10               | 07/23/2025 13:04 |                 |          |
| 2,4-Dinitrotoluene              | ND           | 0.12   | 10               | 07/23/2025 13:04 |                 |          |
| 2,6-Dinitrotoluene              | ND           | 0.12   | 10               | 07/23/2025 13:04 |                 |          |
| Di-n-octyl Phthalate            | ND           | 6.2    | 10               | 07/23/2025 13:04 |                 |          |
| 1,2-Diphenylhydrazine           | ND           | 2.5    | 10               | 07/23/2025 13:04 |                 |          |
| Fluoranthene                    | 0.060        | 0.025  | 10               | 07/23/2025 13:04 |                 |          |
| Fluorene                        | ND           | 0.025  | 10               | 07/23/2025 13:04 |                 |          |
| Hexachlorobenzene               | ND           | 0.013  | 10               | 07/23/2025 13:04 |                 |          |
| Hexachlorobutadiene             | ND           | 0.013  | 10               | 07/23/2025 13:04 |                 |          |
| Hexachlorocyclopentadiene       | ND           | 12     | 10               | 07/23/2025 13:04 |                 |          |
| Hexachloroethane                | ND           | 0.025  | 10               | 07/23/2025 13:04 |                 |          |
| Indeno (1,2,3-cd) pyrene        | 0.11         | 0.025  | 10               | 07/23/2025 13:04 |                 |          |
| Isophorone                      | ND           | 2.5    | 10               | 07/23/2025 13:04 |                 |          |
| 1-Methylnaphthalene             | ND           | 0.013  | 10               | 07/23/2025 13:04 |                 |          |
| 2-Methylnaphthalene             | ND           | 0.013  | 10               | 07/23/2025 13:04 |                 |          |
| 2-Methylphenol (o-Cresol)       | ND           | 2.5    | 10               | 07/23/2025 13:04 |                 |          |
| 3 & 4-Methylphenol (m,p-Cresol) | ND           | 2.5    | 10               | 07/23/2025 13:04 |                 |          |
| Naphthalene                     | ND           | 0.025  | 10               | 07/23/2025 13:04 |                 |          |
| 2-Nitroaniline                  | ND           | 12     | 10               | 07/23/2025 13:04 |                 |          |
| 3-Nitroaniline                  | ND           | 12     | 10               | 07/23/2025 13:04 |                 |          |
| 4-Nitroaniline                  | ND           | 12     | 10               | 07/23/2025 13:04 |                 |          |
| Nitrobenzene                    | ND           | 2.5    | 10               | 07/23/2025 13:04 |                 |          |
| 2-Nitrophenol                   | ND           | 12     | 10               | 07/23/2025 13:04 |                 |          |
| 4-Nitrophenol                   | ND           | 12     | 10               | 07/23/2025 13:04 |                 |          |
| N-Nitrosodiphenylamine          | ND           | 2.5    | 10               | 07/23/2025 13:04 |                 |          |
| N-Nitrosodi-n-propylamine       | ND           | 2.5    | 10               | 07/23/2025 13:04 |                 |          |
| Pentachlorophenol               | ND           | 0.62   | 10               | 07/23/2025 13:04 |                 |          |
| Phenanthrene                    | 0.021        | 0.013  | 10               | 07/23/2025 13:04 |                 |          |
| Phenol                          | ND           | 0.10   | 10               | 07/23/2025 13:04 |                 |          |
| Pyrene                          | 0.11         | 0.013  | 10               | 07/23/2025 13:04 |                 |          |
| Pyridine                        | ND           | 2.5    | 10               | 07/23/2025 13:04 |                 |          |
| 1,2,4-Trichlorobenzene          | ND           | 2.5    | 10               | 07/23/2025 13:04 |                 |          |
| 2,4,5-Trichlorophenol           | ND           | 0.025  | 10               | 07/23/2025 13:04 |                 |          |

(Cont.)



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-05-5   | 2507B37-010A | Soil   | 07/16/2025 08:25 | GC48 07232508.D | 321880   |

| Analytes                  | Result | RL    | DE | Date Analyzed    |
|---------------------------|--------|-------|----|------------------|
| 2,4,6-Trichlorophenol     | ND     | 0.025 | 10 | 07/23/2025 13:04 |
| N-Nitrosodimethylamine    | ND     | 2.5   | 10 | 07/23/2025 13:04 |
| 2,3,4,6-Tetrachlorophenol | ND     | 2.5   | 10 | 07/23/2025 13:04 |

| Surrogates           | REC (%) | Qualifiers | Limits | DE | Date Analyzed    |
|----------------------|---------|------------|--------|----|------------------|
| 2-Fluorophenol       | 69      |            | 60-130 | 10 | 07/23/2025 13:04 |
| Phenol-d5            | 52      | S          | 60-130 | 10 | 07/23/2025 13:04 |
| Nitrobenzene-d5      | 66      |            | 60-130 | 10 | 07/23/2025 13:04 |
| 2-Fluorobiphenyl     | 72      |            | 60-130 | 10 | 07/23/2025 13:04 |
| 2,4,6-Tribromophenol | 50      |            | 50-130 | 10 | 07/23/2025 13:04 |
| 4-Terphenyl-d14      | 67      |            | 50-130 | 10 | 07/23/2025 13:04 |

**Analyst(s):** SPA

**Analytical Comments:** c2,c1,h5



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID                     | Lab ID       | Matrix | Date Collected   |                  | Instrument      | Batch ID |
|-------------------------------|--------------|--------|------------------|------------------|-----------------|----------|
| SB-06-1.5                     | 2507B37-011A | Soil   | 07/16/2025 14:00 |                  | GC48 07232509.D | 321880   |
| Analytes                      | Result       | RL     | DE               | Date Analyzed    |                 |          |
| Acenaphthene                  | ND           | 0.0013 | 1                | 07/23/2025 13:30 |                 |          |
| Acenaphthylene                | 0.0016       | 0.0013 | 1                | 07/23/2025 13:30 |                 |          |
| Acetochlor                    | ND           | 0.25   | 1                | 07/23/2025 13:30 |                 |          |
| Anthracene                    | ND           | 0.0013 | 1                | 07/23/2025 13:30 |                 |          |
| Benzidine                     | ND           | 1.2    | 1                | 07/23/2025 13:30 |                 |          |
| Benzo (a) anthracene          | ND           | 0.012  | 1                | 07/23/2025 13:30 |                 |          |
| Benzo (a) pyrene              | 0.017        | 0.0013 | 1                | 07/23/2025 13:30 |                 |          |
| Benzo (b) fluoranthene        | 0.017        | 0.0025 | 1                | 07/23/2025 13:30 |                 |          |
| Benzo (g,h,i) perylene        | 0.022        | 0.0025 | 1                | 07/23/2025 13:30 |                 |          |
| Benzo (k) fluoranthene        | 0.010        | 0.0025 | 1                | 07/23/2025 13:30 |                 |          |
| Benzoic Acid                  | ND           | 1.2    | 1                | 07/23/2025 13:30 |                 |          |
| Benzyl Alcohol                | ND           | 1.2    | 1                | 07/23/2025 13:30 |                 |          |
| 1,1-Biphenyl                  | ND           | 0.0050 | 1                | 07/23/2025 13:30 |                 |          |
| Bis (2-chloroethoxy) Methane  | ND           | 0.25   | 1                | 07/23/2025 13:30 |                 |          |
| Bis (2-chloroethyl) Ether     | ND           | 0.0013 | 1                | 07/23/2025 13:30 |                 |          |
| Bis (2-chloroisopropyl) Ether | ND           | 0.0025 | 1                | 07/23/2025 13:30 |                 |          |
| Bis (2-ethylhexyl) Adipate    | ND           | 0.25   | 1                | 07/23/2025 13:30 |                 |          |
| Bis (2-ethylhexyl) Phthalate  | ND           | 0.062  | 1                | 07/23/2025 13:30 |                 |          |
| 4-Bromophenyl Phenyl Ether    | ND           | 0.25   | 1                | 07/23/2025 13:30 |                 |          |
| Butylbenzyl Phthalate         | ND           | 0.062  | 1                | 07/23/2025 13:30 |                 |          |
| 4-Chloroaniline               | ND           | 0.0013 | 1                | 07/23/2025 13:30 |                 |          |
| 4-Chloro-3-methylphenol       | ND           | 0.25   | 1                | 07/23/2025 13:30 |                 |          |
| 2-Chloronaphthalene           | ND           | 0.25   | 1                | 07/23/2025 13:30 |                 |          |
| 2-Chlorophenol                | ND           | 0.012  | 1                | 07/23/2025 13:30 |                 |          |
| 4-Chlorophenyl Phenyl Ether   | ND           | 0.25   | 1                | 07/23/2025 13:30 |                 |          |
| Chrysene                      | 0.014        | 0.0013 | 1                | 07/23/2025 13:30 |                 |          |
| Dibenzo (a,h) anthracene      | ND           | 0.0025 | 1                | 07/23/2025 13:30 |                 |          |
| Dibenzofuran                  | ND           | 0.0013 | 1                | 07/23/2025 13:30 |                 |          |
| Di-n-butyl Phthalate          | ND           | 0.062  | 1                | 07/23/2025 13:30 |                 |          |
| 1,2-Dichlorobenzene           | ND           | 0.25   | 1                | 07/23/2025 13:30 |                 |          |
| 1,3-Dichlorobenzene           | ND           | 0.25   | 1                | 07/23/2025 13:30 |                 |          |
| 1,4-Dichlorobenzene           | ND           | 0.25   | 1                | 07/23/2025 13:30 |                 |          |
| 3,3-Dichlorobenzidine         | ND           | 0.0013 | 1                | 07/23/2025 13:30 |                 |          |
| 2,4-Dichlorophenol            | ND           | 0.0025 | 1                | 07/23/2025 13:30 |                 |          |
| 2,6-Dichlorophenol            | ND           | 0.012  | 1                | 07/23/2025 13:30 |                 |          |
| Diethyl Phthalate             | ND           | 0.012  | 1                | 07/23/2025 13:30 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID                       | Lab ID       | Matrix | Date Collected   |                  | Instrument      | Batch ID |
|---------------------------------|--------------|--------|------------------|------------------|-----------------|----------|
| SB-06-1.5                       | 2507B37-011A | Soil   | 07/16/2025 14:00 |                  | GC48 07232509.D | 321880   |
| Analytes                        | Result       | RL     | DE               | Date Analyzed    |                 |          |
| 2,4-Dimethylphenol              | ND           | 0.25   | 1                | 07/23/2025 13:30 |                 |          |
| Dimethyl Phthalate              | ND           | 0.0025 | 1                | 07/23/2025 13:30 |                 |          |
| 4,6-Dinitro-2-methylphenol      | ND           | 1.2    | 1                | 07/23/2025 13:30 |                 |          |
| 2,4-Dinitrophenol               | ND           | 0.25   | 1                | 07/23/2025 13:30 |                 |          |
| 2,4-Dinitrotoluene              | ND           | 0.012  | 1                | 07/23/2025 13:30 |                 |          |
| 2,6-Dinitrotoluene              | ND           | 0.012  | 1                | 07/23/2025 13:30 |                 |          |
| Di-n-octyl Phthalate            | ND           | 0.62   | 1                | 07/23/2025 13:30 |                 |          |
| 1,2-Diphenylhydrazine           | ND           | 0.25   | 1                | 07/23/2025 13:30 |                 |          |
| Fluoranthene                    | 0.018        | 0.0025 | 1                | 07/23/2025 13:30 |                 |          |
| Fluorene                        | ND           | 0.0025 | 1                | 07/23/2025 13:30 |                 |          |
| Hexachlorobenzene               | ND           | 0.0013 | 1                | 07/23/2025 13:30 |                 |          |
| Hexachlorobutadiene             | ND           | 0.0013 | 1                | 07/23/2025 13:30 |                 |          |
| Hexachlorocyclopentadiene       | ND           | 1.2    | 1                | 07/23/2025 13:30 |                 |          |
| Hexachloroethane                | ND           | 0.0025 | 1                | 07/23/2025 13:30 |                 |          |
| Indeno (1,2,3-cd) pyrene        | 0.012        | 0.0025 | 1                | 07/23/2025 13:30 |                 |          |
| Isophorone                      | ND           | 0.25   | 1                | 07/23/2025 13:30 |                 |          |
| 1-Methylnaphthalene             | ND           | 0.0013 | 1                | 07/23/2025 13:30 |                 |          |
| 2-Methylnaphthalene             | ND           | 0.0013 | 1                | 07/23/2025 13:30 |                 |          |
| 2-Methylphenol (o-Cresol)       | ND           | 0.25   | 1                | 07/23/2025 13:30 |                 |          |
| 3 & 4-Methylphenol (m,p-Cresol) | ND           | 0.25   | 1                | 07/23/2025 13:30 |                 |          |
| Naphthalene                     | ND           | 0.0025 | 1                | 07/23/2025 13:30 |                 |          |
| 2-Nitroaniline                  | ND           | 1.2    | 1                | 07/23/2025 13:30 |                 |          |
| 3-Nitroaniline                  | ND           | 1.2    | 1                | 07/23/2025 13:30 |                 |          |
| 4-Nitroaniline                  | ND           | 1.2    | 1                | 07/23/2025 13:30 |                 |          |
| Nitrobenzene                    | ND           | 0.25   | 1                | 07/23/2025 13:30 |                 |          |
| 2-Nitrophenol                   | ND           | 1.2    | 1                | 07/23/2025 13:30 |                 |          |
| 4-Nitrophenol                   | ND           | 1.2    | 1                | 07/23/2025 13:30 |                 |          |
| N-Nitrosodiphenylamine          | ND           | 0.25   | 1                | 07/23/2025 13:30 |                 |          |
| N-Nitrosodi-n-propylamine       | ND           | 0.25   | 1                | 07/23/2025 13:30 |                 |          |
| Pentachlorophenol               | ND           | 0.062  | 1                | 07/23/2025 13:30 |                 |          |
| Phenanthrene                    | 0.0091       | 0.0013 | 1                | 07/23/2025 13:30 |                 |          |
| Phenol                          | ND           | 0.010  | 1                | 07/23/2025 13:30 |                 |          |
| Pyrene                          | 0.021        | 0.0013 | 1                | 07/23/2025 13:30 |                 |          |
| Pyridine                        | ND           | 0.25   | 1                | 07/23/2025 13:30 |                 |          |
| 1,2,4-Trichlorobenzene          | ND           | 0.25   | 1                | 07/23/2025 13:30 |                 |          |
| 2,4,5-Trichlorophenol           | ND           | 0.0025 | 1                | 07/23/2025 13:30 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-06-1.5 | 2507B37-011A | Soil   | 07/16/2025 14:00 | GC48 07232509.D | 321880   |

| Analytes                  | Result | RL     | DE | Date Analyzed    |
|---------------------------|--------|--------|----|------------------|
| 2,4,6-Trichlorophenol     | ND     | 0.0025 | 1  | 07/23/2025 13:30 |
| N-Nitrosodimethylamine    | ND     | 0.25   | 1  | 07/23/2025 13:30 |
| 2,3,4,6-Tetrachlorophenol | ND     | 0.25   | 1  | 07/23/2025 13:30 |

| Surrogates           | REC (%) | Limits | DE | Date Analyzed    |
|----------------------|---------|--------|----|------------------|
| 2-Fluorophenol       | 81      | 60-130 | 1  | 07/23/2025 13:30 |
| Phenol-d5            | 76      | 60-130 | 1  | 07/23/2025 13:30 |
| Nitrobenzene-d5      | 68      | 60-130 | 1  | 07/23/2025 13:30 |
| 2-Fluorobiphenyl     | 70      | 60-130 | 1  | 07/23/2025 13:30 |
| 2,4,6-Tribromophenol | 66      | 50-130 | 1  | 07/23/2025 13:30 |
| 4-Terphenyl-d14      | 71      | 50-130 | 1  | 07/23/2025 13:30 |

**Analyst(s):** SPA

**Analytical Comments:** h5



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID                     | Lab ID       | Matrix | Date Collected   | Instrument       | Batch ID |
|-------------------------------|--------------|--------|------------------|------------------|----------|
| SB-06-5                       | 2507B37-012A | Soil   | 07/16/2025 13:57 | GC48 07222525.D  | 321880   |
| Analytes                      | Result       | RL     | DE               | Date Analyzed    |          |
| Acenaphthene                  | ND           | 0.0013 | 1                | 07/22/2025 20:09 |          |
| Acenaphthylene                | ND           | 0.0013 | 1                | 07/22/2025 20:09 |          |
| Acetochlor                    | ND           | 0.25   | 1                | 07/22/2025 20:09 |          |
| Anthracene                    | ND           | 0.0013 | 1                | 07/22/2025 20:09 |          |
| Benzidine                     | ND           | 1.2    | 1                | 07/22/2025 20:09 |          |
| Benzo (a) anthracene          | ND           | 0.012  | 1                | 07/22/2025 20:09 |          |
| Benzo (a) pyrene              | ND           | 0.0013 | 1                | 07/22/2025 20:09 |          |
| Benzo (b) fluoranthene        | ND           | 0.0025 | 1                | 07/22/2025 20:09 |          |
| Benzo (g,h,i) perylene        | ND           | 0.0025 | 1                | 07/22/2025 20:09 |          |
| Benzo (k) fluoranthene        | ND           | 0.0025 | 1                | 07/22/2025 20:09 |          |
| Benzoic Acid                  | ND           | 1.2    | 1                | 07/22/2025 20:09 |          |
| Benzyl Alcohol                | ND           | 1.2    | 1                | 07/22/2025 20:09 |          |
| 1,1-Biphenyl                  | ND           | 0.0050 | 1                | 07/22/2025 20:09 |          |
| Bis (2-chloroethoxy) Methane  | ND           | 0.25   | 1                | 07/22/2025 20:09 |          |
| Bis (2-chloroethyl) Ether     | ND           | 0.0013 | 1                | 07/22/2025 20:09 |          |
| Bis (2-chloroisopropyl) Ether | ND           | 0.0025 | 1                | 07/22/2025 20:09 |          |
| Bis (2-ethylhexyl) Adipate    | ND           | 0.25   | 1                | 07/22/2025 20:09 |          |
| Bis (2-ethylhexyl) Phthalate  | ND           | 0.062  | 1                | 07/22/2025 20:09 |          |
| 4-Bromophenyl Phenyl Ether    | ND           | 0.25   | 1                | 07/22/2025 20:09 |          |
| Butylbenzyl Phthalate         | ND           | 0.062  | 1                | 07/22/2025 20:09 |          |
| 4-Chloroaniline               | ND           | 0.0013 | 1                | 07/22/2025 20:09 |          |
| 4-Chloro-3-methylphenol       | ND           | 0.25   | 1                | 07/22/2025 20:09 |          |
| 2-Chloronaphthalene           | ND           | 0.25   | 1                | 07/22/2025 20:09 |          |
| 2-Chlorophenol                | ND           | 0.012  | 1                | 07/22/2025 20:09 |          |
| 4-Chlorophenyl Phenyl Ether   | ND           | 0.25   | 1                | 07/22/2025 20:09 |          |
| Chrysene                      | ND           | 0.0013 | 1                | 07/22/2025 20:09 |          |
| Dibenzo (a,h) anthracene      | ND           | 0.0025 | 1                | 07/22/2025 20:09 |          |
| Dibenzofuran                  | ND           | 0.0013 | 1                | 07/22/2025 20:09 |          |
| Di-n-butyl Phthalate          | ND           | 0.062  | 1                | 07/22/2025 20:09 |          |
| 1,2-Dichlorobenzene           | ND           | 0.25   | 1                | 07/22/2025 20:09 |          |
| 1,3-Dichlorobenzene           | ND           | 0.25   | 1                | 07/22/2025 20:09 |          |
| 1,4-Dichlorobenzene           | ND           | 0.25   | 1                | 07/22/2025 20:09 |          |
| 3,3-Dichlorobenzidine         | ND           | 0.0013 | 1                | 07/22/2025 20:09 |          |
| 2,4-Dichlorophenol            | ND           | 0.0025 | 1                | 07/22/2025 20:09 |          |
| 2,6-Dichlorophenol            | ND           | 0.012  | 1                | 07/22/2025 20:09 |          |
| Diethyl Phthalate             | ND           | 0.012  | 1                | 07/22/2025 20:09 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID                       | Lab ID        | Matrix | Date Collected   |                  | Instrument      | Batch ID |
|---------------------------------|---------------|--------|------------------|------------------|-----------------|----------|
| SB-06-5                         | 2507B37-012A  | Soil   | 07/16/2025 13:57 |                  | GC48 07222525.D | 321880   |
| Analytes                        | Result        | RL     | DE               | Date Analyzed    |                 |          |
| 2,4-Dimethylphenol              | ND            | 0.25   | 1                | 07/22/2025 20:09 |                 |          |
| Dimethyl Phthalate              | ND            | 0.0025 | 1                | 07/22/2025 20:09 |                 |          |
| 4,6-Dinitro-2-methylphenol      | ND            | 1.2    | 1                | 07/22/2025 20:09 |                 |          |
| 2,4-Dinitrophenol               | ND            | 0.25   | 1                | 07/22/2025 20:09 |                 |          |
| 2,4-Dinitrotoluene              | ND            | 0.012  | 1                | 07/22/2025 20:09 |                 |          |
| 2,6-Dinitrotoluene              | ND            | 0.012  | 1                | 07/22/2025 20:09 |                 |          |
| Di-n-octyl Phthalate            | ND            | 0.62   | 1                | 07/22/2025 20:09 |                 |          |
| 1,2-Diphenylhydrazine           | ND            | 0.25   | 1                | 07/22/2025 20:09 |                 |          |
| Fluoranthene                    | ND            | 0.0025 | 1                | 07/22/2025 20:09 |                 |          |
| Fluorene                        | ND            | 0.0025 | 1                | 07/22/2025 20:09 |                 |          |
| Hexachlorobenzene               | ND            | 0.0013 | 1                | 07/22/2025 20:09 |                 |          |
| Hexachlorobutadiene             | ND            | 0.0013 | 1                | 07/22/2025 20:09 |                 |          |
| Hexachlorocyclopentadiene       | ND            | 1.2    | 1                | 07/22/2025 20:09 |                 |          |
| Hexachloroethane                | ND            | 0.0025 | 1                | 07/22/2025 20:09 |                 |          |
| Indeno (1,2,3-cd) pyrene        | ND            | 0.0025 | 1                | 07/22/2025 20:09 |                 |          |
| Isophorone                      | ND            | 0.25   | 1                | 07/22/2025 20:09 |                 |          |
| 1-Methylnaphthalene             | ND            | 0.0013 | 1                | 07/22/2025 20:09 |                 |          |
| 2-Methylnaphthalene             | ND            | 0.0013 | 1                | 07/22/2025 20:09 |                 |          |
| 2-Methylphenol (o-Cresol)       | ND            | 0.25   | 1                | 07/22/2025 20:09 |                 |          |
| 3 & 4-Methylphenol (m,p-Cresol) | ND            | 0.25   | 1                | 07/22/2025 20:09 |                 |          |
| Naphthalene                     | ND            | 0.0025 | 1                | 07/22/2025 20:09 |                 |          |
| 2-Nitroaniline                  | ND            | 1.2    | 1                | 07/22/2025 20:09 |                 |          |
| 3-Nitroaniline                  | ND            | 1.2    | 1                | 07/22/2025 20:09 |                 |          |
| 4-Nitroaniline                  | ND            | 1.2    | 1                | 07/22/2025 20:09 |                 |          |
| Nitrobenzene                    | ND            | 0.25   | 1                | 07/22/2025 20:09 |                 |          |
| 2-Nitrophenol                   | ND            | 1.2    | 1                | 07/22/2025 20:09 |                 |          |
| 4-Nitrophenol                   | ND            | 1.2    | 1                | 07/22/2025 20:09 |                 |          |
| N-Nitrosodiphenylamine          | ND            | 0.25   | 1                | 07/22/2025 20:09 |                 |          |
| N-Nitrosodi-n-propylamine       | ND            | 0.25   | 1                | 07/22/2025 20:09 |                 |          |
| Pentachlorophenol               | ND            | 0.062  | 1                | 07/22/2025 20:09 |                 |          |
| Phenanthrene                    | ND            | 0.0013 | 1                | 07/22/2025 20:09 |                 |          |
| Phenol                          | ND            | 0.010  | 1                | 07/22/2025 20:09 |                 |          |
| Pyrene                          | <b>0.0013</b> | 0.0013 | 1                | 07/22/2025 20:09 |                 |          |
| Pyridine                        | ND            | 0.25   | 1                | 07/22/2025 20:09 |                 |          |
| 1,2,4-Trichlorobenzene          | ND            | 0.25   | 1                | 07/22/2025 20:09 |                 |          |
| 2,4,5-Trichlorophenol           | ND            | 0.0025 | 1                | 07/22/2025 20:09 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-06-5   | 2507B37-012A | Soil   | 07/16/2025 13:57 | GC48 07222525.D | 321880   |

| Analytes                  | Result | RL     | DE | Date Analyzed    |
|---------------------------|--------|--------|----|------------------|
| 2,4,6-Trichlorophenol     | ND     | 0.0025 | 1  | 07/22/2025 20:09 |
| N-Nitrosodimethylamine    | ND     | 0.25   | 1  | 07/22/2025 20:09 |
| 2,3,4,6-Tetrachlorophenol | ND     | 0.25   | 1  | 07/22/2025 20:09 |

| Surrogates           | REC (%) | Limits | DE | Date Analyzed    |
|----------------------|---------|--------|----|------------------|
| 2-Fluorophenol       | 81      | 60-130 | 1  | 07/22/2025 20:09 |
| Phenol-d5            | 76      | 60-130 | 1  | 07/22/2025 20:09 |
| Nitrobenzene-d5      | 82      | 60-130 | 1  | 07/22/2025 20:09 |
| 2-Fluorobiphenyl     | 79      | 60-130 | 1  | 07/22/2025 20:09 |
| 2,4,6-Tribromophenol | 74      | 50-130 | 1  | 07/22/2025 20:09 |
| 4-Terphenyl-d14      | 82      | 50-130 | 1  | 07/22/2025 20:09 |

**Analyst(s):** LAT

**Analytical Comments:** h5



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID                     | Lab ID        | Matrix | Date Collected   | Instrument      | Batch ID             |
|-------------------------------|---------------|--------|------------------|-----------------|----------------------|
| SB-07-1                       | 2507B37-013A  | Soil   | 07/16/2025 13:25 | GC48 07232517.D | 321880               |
| <u>Analytes</u>               | <u>Result</u> |        | <u>RL</u>        | <u>DE</u>       | <u>Date Analyzed</u> |
| Acenaphthene                  | ND            |        | 0.0013           | 1               | 07/23/2025 17:04     |
| Acenaphthylene                | 0.0034        |        | 0.0013           | 1               | 07/23/2025 17:04     |
| Acetochlor                    | ND            |        | 0.25             | 1               | 07/23/2025 17:04     |
| Anthracene                    | ND            |        | 0.0013           | 1               | 07/23/2025 17:04     |
| Benzidine                     | ND            |        | 1.2              | 1               | 07/23/2025 17:04     |
| Benzo (a) anthracene          | 0.019         |        | 0.012            | 1               | 07/23/2025 17:04     |
| Benzo (a) pyrene              | 0.039         |        | 0.0013           | 1               | 07/23/2025 17:04     |
| Benzo (b) fluoranthene        | 0.038         |        | 0.0025           | 1               | 07/23/2025 17:04     |
| Benzo (g,h,i) perylene        | 0.057         |        | 0.0025           | 1               | 07/23/2025 17:04     |
| Benzo (k) fluoranthene        | 0.014         |        | 0.0025           | 1               | 07/23/2025 17:04     |
| Benzoic Acid                  | ND            |        | 1.2              | 1               | 07/23/2025 17:04     |
| Benzyl Alcohol                | ND            |        | 1.2              | 1               | 07/23/2025 17:04     |
| 1,1-Biphenyl                  | ND            |        | 0.0050           | 1               | 07/23/2025 17:04     |
| Bis (2-chloroethoxy) Methane  | ND            |        | 0.25             | 1               | 07/23/2025 17:04     |
| Bis (2-chloroethyl) Ether     | ND            |        | 0.0013           | 1               | 07/23/2025 17:04     |
| Bis (2-chloroisopropyl) Ether | ND            |        | 0.0025           | 1               | 07/23/2025 17:04     |
| Bis (2-ethylhexyl) Adipate    | ND            |        | 0.25             | 1               | 07/23/2025 17:04     |
| Bis (2-ethylhexyl) Phthalate  | ND            |        | 0.062            | 1               | 07/23/2025 17:04     |
| 4-Bromophenyl Phenyl Ether    | ND            |        | 0.25             | 1               | 07/23/2025 17:04     |
| Butylbenzyl Phthalate         | ND            |        | 0.062            | 1               | 07/23/2025 17:04     |
| 4-Chloroaniline               | ND            |        | 0.0013           | 1               | 07/23/2025 17:04     |
| 4-Chloro-3-methylphenol       | ND            |        | 0.25             | 1               | 07/23/2025 17:04     |
| 2-Chloronaphthalene           | ND            |        | 0.25             | 1               | 07/23/2025 17:04     |
| 2-Chlorophenol                | ND            |        | 0.012            | 1               | 07/23/2025 17:04     |
| 4-Chlorophenyl Phenyl Ether   | ND            |        | 0.25             | 1               | 07/23/2025 17:04     |
| Chrysene                      | 0.024         |        | 0.0013           | 1               | 07/23/2025 17:04     |
| Dibenzo (a,h) anthracene      | 0.0044        |        | 0.0025           | 1               | 07/23/2025 17:04     |
| Dibenzofuran                  | ND            |        | 0.0013           | 1               | 07/23/2025 17:04     |
| Di-n-butyl Phthalate          | ND            |        | 0.062            | 1               | 07/23/2025 17:04     |
| 1,2-Dichlorobenzene           | ND            |        | 0.25             | 1               | 07/23/2025 17:04     |
| 1,3-Dichlorobenzene           | ND            |        | 0.25             | 1               | 07/23/2025 17:04     |
| 1,4-Dichlorobenzene           | ND            |        | 0.25             | 1               | 07/23/2025 17:04     |
| 3,3-Dichlorobenzidine         | ND            |        | 0.0013           | 1               | 07/23/2025 17:04     |
| 2,4-Dichlorophenol            | ND            |        | 0.0025           | 1               | 07/23/2025 17:04     |
| 2,6-Dichlorophenol            | ND            |        | 0.012            | 1               | 07/23/2025 17:04     |
| Diethyl Phthalate             | ND            |        | 0.012            | 1               | 07/23/2025 17:04     |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID                       | Lab ID       | Matrix | Date Collected   |                  | Instrument      | Batch ID |
|---------------------------------|--------------|--------|------------------|------------------|-----------------|----------|
| SB-07-1                         | 2507B37-013A | Soil   | 07/16/2025 13:25 |                  | GC48 07232517.D | 321880   |
| Analytes                        | Result       | RL     | DE               | Date Analyzed    |                 |          |
| 2,4-Dimethylphenol              | ND           | 0.25   | 1                | 07/23/2025 17:04 |                 |          |
| Dimethyl Phthalate              | ND           | 0.0025 | 1                | 07/23/2025 17:04 |                 |          |
| 4,6-Dinitro-2-methylphenol      | ND           | 1.2    | 1                | 07/23/2025 17:04 |                 |          |
| 2,4-Dinitrophenol               | ND           | 0.25   | 1                | 07/23/2025 17:04 |                 |          |
| 2,4-Dinitrotoluene              | ND           | 0.012  | 1                | 07/23/2025 17:04 |                 |          |
| 2,6-Dinitrotoluene              | ND           | 0.012  | 1                | 07/23/2025 17:04 |                 |          |
| Di-n-octyl Phthalate            | ND           | 0.62   | 1                | 07/23/2025 17:04 |                 |          |
| 1,2-Diphenylhydrazine           | ND           | 0.25   | 1                | 07/23/2025 17:04 |                 |          |
| Fluoranthene                    | 0.030        | 0.0025 | 1                | 07/23/2025 17:04 |                 |          |
| Fluorene                        | ND           | 0.0025 | 1                | 07/23/2025 17:04 |                 |          |
| Hexachlorobenzene               | ND           | 0.0013 | 1                | 07/23/2025 17:04 |                 |          |
| Hexachlorobutadiene             | ND           | 0.0013 | 1                | 07/23/2025 17:04 |                 |          |
| Hexachlorocyclopentadiene       | ND           | 1.2    | 1                | 07/23/2025 17:04 |                 |          |
| Hexachloroethane                | ND           | 0.0025 | 1                | 07/23/2025 17:04 |                 |          |
| Indeno (1,2,3-cd) pyrene        | 0.035        | 0.0025 | 1                | 07/23/2025 17:04 |                 |          |
| Isophorone                      | ND           | 0.25   | 1                | 07/23/2025 17:04 |                 |          |
| 1-Methylnaphthalene             | 0.0013       | 0.0013 | 1                | 07/23/2025 17:04 |                 |          |
| 2-Methylnaphthalene             | ND           | 0.0013 | 1                | 07/23/2025 17:04 |                 |          |
| 2-Methylphenol (o-Cresol)       | ND           | 0.25   | 1                | 07/23/2025 17:04 |                 |          |
| 3 & 4-Methylphenol (m,p-Cresol) | ND           | 0.25   | 1                | 07/23/2025 17:04 |                 |          |
| Naphthalene                     | ND           | 0.0025 | 1                | 07/23/2025 17:04 |                 |          |
| 2-Nitroaniline                  | ND           | 1.2    | 1                | 07/23/2025 17:04 |                 |          |
| 3-Nitroaniline                  | ND           | 1.2    | 1                | 07/23/2025 17:04 |                 |          |
| 4-Nitroaniline                  | ND           | 1.2    | 1                | 07/23/2025 17:04 |                 |          |
| Nitrobenzene                    | ND           | 0.25   | 1                | 07/23/2025 17:04 |                 |          |
| 2-Nitrophenol                   | ND           | 1.2    | 1                | 07/23/2025 17:04 |                 |          |
| 4-Nitrophenol                   | ND           | 1.2    | 1                | 07/23/2025 17:04 |                 |          |
| N-Nitrosodiphenylamine          | ND           | 0.25   | 1                | 07/23/2025 17:04 |                 |          |
| N-Nitrosodi-n-propylamine       | ND           | 0.25   | 1                | 07/23/2025 17:04 |                 |          |
| Pentachlorophenol               | ND           | 0.062  | 1                | 07/23/2025 17:04 |                 |          |
| Phenanthrene                    | 0.011        | 0.0013 | 1                | 07/23/2025 17:04 |                 |          |
| Phenol                          | ND           | 0.010  | 1                | 07/23/2025 17:04 |                 |          |
| Pyrene                          | 0.043        | 0.0013 | 1                | 07/23/2025 17:04 |                 |          |
| Pyridine                        | ND           | 0.25   | 1                | 07/23/2025 17:04 |                 |          |
| 1,2,4-Trichlorobenzene          | ND           | 0.25   | 1                | 07/23/2025 17:04 |                 |          |
| 2,4,5-Trichlorophenol           | ND           | 0.0025 | 1                | 07/23/2025 17:04 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-07-1   | 2507B37-013A | Soil   | 07/16/2025 13:25 | GC48 07232517.D | 321880   |

| Analytes                  | Result | RL     | DE | Date Analyzed    |
|---------------------------|--------|--------|----|------------------|
| 2,4,6-Trichlorophenol     | ND     | 0.0025 | 1  | 07/23/2025 17:04 |
| N-Nitrosodimethylamine    | ND     | 0.25   | 1  | 07/23/2025 17:04 |
| 2,3,4,6-Tetrachlorophenol | ND     | 0.25   | 1  | 07/23/2025 17:04 |

| Surrogates           | REC (%) | Limits | DE | Date Analyzed    |
|----------------------|---------|--------|----|------------------|
| 2-Fluorophenol       | 73      | 60-130 | 1  | 07/23/2025 17:04 |
| Phenol-d5            | 70      | 60-130 | 1  | 07/23/2025 17:04 |
| Nitrobenzene-d5      | 73      | 60-130 | 1  | 07/23/2025 17:04 |
| 2-Fluorobiphenyl     | 70      | 60-130 | 1  | 07/23/2025 17:04 |
| 2,4,6-Tribromophenol | 71      | 50-130 | 1  | 07/23/2025 17:04 |
| 4-Terphenyl-d14      | 78      | 50-130 | 1  | 07/23/2025 17:04 |

**Analyst(s):** SPA

**Analytical Comments:** h5



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-07-5   | 2507B37-014A | Soil   | 07/16/2025 13:23 | GC47 07232514.D | 321880   |

| Analytes                      | Result | RL     | DE | Date Analyzed    |
|-------------------------------|--------|--------|----|------------------|
| Acenaphthene                  | ND     | 0.0013 | 1  | 07/23/2025 16:09 |
| Acenaphthylene                | ND     | 0.0013 | 1  | 07/23/2025 16:09 |
| Acetochlor                    | ND     | 0.25   | 1  | 07/23/2025 16:09 |
| Anthracene                    | ND     | 0.0013 | 1  | 07/23/2025 16:09 |
| Benzidine                     | ND     | 1.2    | 1  | 07/23/2025 16:09 |
| Benzo (a) anthracene          | ND     | 0.012  | 1  | 07/23/2025 16:09 |
| Benzo (a) pyrene              | 0.0017 | 0.0013 | 1  | 07/23/2025 16:09 |
| Benzo (b) fluoranthene        | 0.0037 | 0.0025 | 1  | 07/23/2025 16:09 |
| Benzo (g,h,i) perylene        | 0.0028 | 0.0025 | 1  | 07/23/2025 16:09 |
| Benzo (k) fluoranthene        | ND     | 0.0025 | 1  | 07/23/2025 16:09 |
| Benzoic Acid                  | ND     | 1.2    | 1  | 07/23/2025 16:09 |
| Benzyl Alcohol                | ND     | 1.2    | 1  | 07/23/2025 16:09 |
| 1,1-Biphenyl                  | ND     | 0.0050 | 1  | 07/23/2025 16:09 |
| Bis (2-chloroethoxy) Methane  | ND     | 0.25   | 1  | 07/23/2025 16:09 |
| Bis (2-chloroethyl) Ether     | ND     | 0.0013 | 1  | 07/23/2025 16:09 |
| Bis (2-chloroisopropyl) Ether | ND     | 0.0025 | 1  | 07/23/2025 16:09 |
| Bis (2-ethylhexyl) Adipate    | ND     | 0.25   | 1  | 07/23/2025 16:09 |
| Bis (2-ethylhexyl) Phthalate  | ND     | 0.062  | 1  | 07/23/2025 16:09 |
| 4-Bromophenyl Phenyl Ether    | ND     | 0.25   | 1  | 07/23/2025 16:09 |
| Butylbenzyl Phthalate         | ND     | 0.062  | 1  | 07/23/2025 16:09 |
| 4-Chloroaniline               | ND     | 0.0013 | 1  | 07/23/2025 16:09 |
| 4-Chloro-3-methylphenol       | ND     | 0.25   | 1  | 07/23/2025 16:09 |
| 2-Chloronaphthalene           | ND     | 0.25   | 1  | 07/23/2025 16:09 |
| 2-Chlorophenol                | ND     | 0.012  | 1  | 07/23/2025 16:09 |
| 4-Chlorophenyl Phenyl Ether   | ND     | 0.25   | 1  | 07/23/2025 16:09 |
| Chrysene                      | ND     | 0.0013 | 1  | 07/23/2025 16:09 |
| Dibenzo (a,h) anthracene      | ND     | 0.0025 | 1  | 07/23/2025 16:09 |
| Dibenzofuran                  | ND     | 0.0013 | 1  | 07/23/2025 16:09 |
| Di-n-butyl Phthalate          | ND     | 0.062  | 1  | 07/23/2025 16:09 |
| 1,2-Dichlorobenzene           | ND     | 0.25   | 1  | 07/23/2025 16:09 |
| 1,3-Dichlorobenzene           | ND     | 0.25   | 1  | 07/23/2025 16:09 |
| 1,4-Dichlorobenzene           | ND     | 0.25   | 1  | 07/23/2025 16:09 |
| 3,3-Dichlorobenzidine         | ND     | 0.0013 | 1  | 07/23/2025 16:09 |
| 2,4-Dichlorophenol            | ND     | 0.0025 | 1  | 07/23/2025 16:09 |
| 2,6-Dichlorophenol            | ND     | 0.012  | 1  | 07/23/2025 16:09 |
| Diethyl Phthalate             | ND     | 0.012  | 1  | 07/23/2025 16:09 |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID                       | Lab ID       | Matrix | Date Collected   |                  | Instrument      | Batch ID |
|---------------------------------|--------------|--------|------------------|------------------|-----------------|----------|
| SB-07-5                         | 2507B37-014A | Soil   | 07/16/2025 13:23 |                  | GC47 07232514.D | 321880   |
| Analytes                        | Result       | RL     | DE               | Date Analyzed    |                 |          |
| 2,4-Dimethylphenol              | ND           | 0.25   | 1                | 07/23/2025 16:09 |                 |          |
| Dimethyl Phthalate              | ND           | 0.0025 | 1                | 07/23/2025 16:09 |                 |          |
| 4,6-Dinitro-2-methylphenol      | ND           | 1.2    | 1                | 07/23/2025 16:09 |                 |          |
| 2,4-Dinitrophenol               | ND           | 0.25   | 1                | 07/23/2025 16:09 |                 |          |
| 2,4-Dinitrotoluene              | ND           | 0.012  | 1                | 07/23/2025 16:09 |                 |          |
| 2,6-Dinitrotoluene              | ND           | 0.012  | 1                | 07/23/2025 16:09 |                 |          |
| Di-n-octyl Phthalate            | ND           | 0.62   | 1                | 07/23/2025 16:09 |                 |          |
| 1,2-Diphenylhydrazine           | ND           | 0.25   | 1                | 07/23/2025 16:09 |                 |          |
| Fluoranthene                    | ND           | 0.0025 | 1                | 07/23/2025 16:09 |                 |          |
| Fluorene                        | ND           | 0.0025 | 1                | 07/23/2025 16:09 |                 |          |
| Hexachlorobenzene               | ND           | 0.0013 | 1                | 07/23/2025 16:09 |                 |          |
| Hexachlorobutadiene             | ND           | 0.0013 | 1                | 07/23/2025 16:09 |                 |          |
| Hexachlorocyclopentadiene       | ND           | 1.2    | 1                | 07/23/2025 16:09 |                 |          |
| Hexachloroethane                | ND           | 0.0025 | 1                | 07/23/2025 16:09 |                 |          |
| Indeno (1,2,3-cd) pyrene        | 0.0027       | 0.0025 | 1                | 07/23/2025 16:09 |                 |          |
| Isophorone                      | ND           | 0.25   | 1                | 07/23/2025 16:09 |                 |          |
| 1-Methylnaphthalene             | ND           | 0.0013 | 1                | 07/23/2025 16:09 |                 |          |
| 2-Methylnaphthalene             | ND           | 0.0013 | 1                | 07/23/2025 16:09 |                 |          |
| 2-Methylphenol (o-Cresol)       | ND           | 0.25   | 1                | 07/23/2025 16:09 |                 |          |
| 3 & 4-Methylphenol (m,p-Cresol) | ND           | 0.25   | 1                | 07/23/2025 16:09 |                 |          |
| Naphthalene                     | ND           | 0.0025 | 1                | 07/23/2025 16:09 |                 |          |
| 2-Nitroaniline                  | ND           | 1.2    | 1                | 07/23/2025 16:09 |                 |          |
| 3-Nitroaniline                  | ND           | 1.2    | 1                | 07/23/2025 16:09 |                 |          |
| 4-Nitroaniline                  | ND           | 1.2    | 1                | 07/23/2025 16:09 |                 |          |
| Nitrobenzene                    | ND           | 0.25   | 1                | 07/23/2025 16:09 |                 |          |
| 2-Nitrophenol                   | ND           | 1.2    | 1                | 07/23/2025 16:09 |                 |          |
| 4-Nitrophenol                   | ND           | 1.2    | 1                | 07/23/2025 16:09 |                 |          |
| N-Nitrosodiphenylamine          | ND           | 0.25   | 1                | 07/23/2025 16:09 |                 |          |
| N-Nitrosodi-n-propylamine       | ND           | 0.25   | 1                | 07/23/2025 16:09 |                 |          |
| Pentachlorophenol               | ND           | 0.062  | 1                | 07/23/2025 16:09 |                 |          |
| Phenanthrene                    | 0.0038       | 0.0013 | 1                | 07/23/2025 16:09 |                 |          |
| Phenol                          | ND           | 0.010  | 1                | 07/23/2025 16:09 |                 |          |
| Pyrene                          | ND           | 0.0013 | 1                | 07/23/2025 16:09 |                 |          |
| Pyridine                        | ND           | 0.25   | 1                | 07/23/2025 16:09 |                 |          |
| 1,2,4-Trichlorobenzene          | ND           | 0.25   | 1                | 07/23/2025 16:09 |                 |          |
| 2,4,5-Trichlorophenol           | ND           | 0.0025 | 1                | 07/23/2025 16:09 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-07-5   | 2507B37-014A | Soil   | 07/16/2025 13:23 | GC47 07232514.D | 321880   |

| Analytes                  | Result | RL     | DE | Date Analyzed    |
|---------------------------|--------|--------|----|------------------|
| 2,4,6-Trichlorophenol     | ND     | 0.0025 | 1  | 07/23/2025 16:09 |
| N-Nitrosodimethylamine    | ND     | 0.25   | 1  | 07/23/2025 16:09 |
| 2,3,4,6-Tetrachlorophenol | ND     | 0.25   | 1  | 07/23/2025 16:09 |

| Surrogates           | REC (%) | Limits | DE | Date Analyzed    |
|----------------------|---------|--------|----|------------------|
| 2-Fluorophenol       | 86      | 60-130 | 1  | 07/23/2025 16:09 |
| Phenol-d5            | 72      | 60-130 | 1  | 07/23/2025 16:09 |
| Nitrobenzene-d5      | 68      | 60-130 | 1  | 07/23/2025 16:09 |
| 2-Fluorobiphenyl     | 62      | 60-130 | 1  | 07/23/2025 16:09 |
| 2,4,6-Tribromophenol | 54      | 50-130 | 1  | 07/23/2025 16:09 |
| 4-Terphenyl-d14      | 72      | 50-130 | 1  | 07/23/2025 16:09 |

**Analyst(s):** LAT

**Analytical Comments:** h5





## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID                     | Lab ID       | Matrix | Date Collected   |                  | Instrument      | Batch ID |
|-------------------------------|--------------|--------|------------------|------------------|-----------------|----------|
| SB-08-1                       | 2507B37-015A | Soil   | 07/16/2025 11:35 |                  | GC47 07222526.D | 321880   |
| Analytes                      | Result       | RL     | DE               | Date Analyzed    |                 |          |
| Acenaphthene                  | ND           | 0.0065 | 5                | 07/22/2025 21:17 |                 |          |
| Acenaphthylene                | 0.0077       | 0.0065 | 5                | 07/22/2025 21:17 |                 |          |
| Acetochlor                    | ND           | 1.2    | 5                | 07/22/2025 21:17 |                 |          |
| Anthracene                    | ND           | 0.0065 | 5                | 07/22/2025 21:17 |                 |          |
| Benzidine                     | ND           | 6.2    | 5                | 07/22/2025 21:17 |                 |          |
| Benzo (a) anthracene          | ND           | 0.062  | 5                | 07/22/2025 21:17 |                 |          |
| Benzo (a) pyrene              | 0.033        | 0.0065 | 5                | 07/22/2025 21:17 |                 |          |
| Benzo (b) fluoranthene        | 0.039        | 0.012  | 5                | 07/22/2025 21:17 |                 |          |
| Benzo (g,h,i) perylene        | 0.032        | 0.012  | 5                | 07/22/2025 21:17 |                 |          |
| Benzo (k) fluoranthene        | 0.022        | 0.012  | 5                | 07/22/2025 21:17 |                 |          |
| Benzoic Acid                  | ND           | 6.2    | 5                | 07/22/2025 21:17 |                 |          |
| Benzyl Alcohol                | ND           | 6.2    | 5                | 07/22/2025 21:17 |                 |          |
| 1,1-Biphenyl                  | ND           | 0.025  | 5                | 07/22/2025 21:17 |                 |          |
| Bis (2-chloroethoxy) Methane  | ND           | 1.2    | 5                | 07/22/2025 21:17 |                 |          |
| Bis (2-chloroethyl) Ether     | ND           | 0.0065 | 5                | 07/22/2025 21:17 |                 |          |
| Bis (2-chloroisopropyl) Ether | ND           | 0.012  | 5                | 07/22/2025 21:17 |                 |          |
| Bis (2-ethylhexyl) Adipate    | ND           | 1.2    | 5                | 07/22/2025 21:17 |                 |          |
| Bis (2-ethylhexyl) Phthalate  | ND           | 0.31   | 5                | 07/22/2025 21:17 |                 |          |
| 4-Bromophenyl Phenyl Ether    | ND           | 1.2    | 5                | 07/22/2025 21:17 |                 |          |
| Butylbenzyl Phthalate         | ND           | 0.31   | 5                | 07/22/2025 21:17 |                 |          |
| 4-Chloroaniline               | ND           | 0.0065 | 5                | 07/22/2025 21:17 |                 |          |
| 4-Chloro-3-methylphenol       | ND           | 1.2    | 5                | 07/22/2025 21:17 |                 |          |
| 2-Chloronaphthalene           | ND           | 1.2    | 5                | 07/22/2025 21:17 |                 |          |
| 2-Chlorophenol                | ND           | 0.062  | 5                | 07/22/2025 21:17 |                 |          |
| 4-Chlorophenyl Phenyl Ether   | ND           | 1.2    | 5                | 07/22/2025 21:17 |                 |          |
| Chrysene                      | 0.029        | 0.0065 | 5                | 07/22/2025 21:17 |                 |          |
| Dibenzo (a,h) anthracene      | 0.015        | 0.012  | 5                | 07/22/2025 21:17 |                 |          |
| Dibenzofuran                  | ND           | 0.0065 | 5                | 07/22/2025 21:17 |                 |          |
| Di-n-butyl Phthalate          | ND           | 0.31   | 5                | 07/22/2025 21:17 |                 |          |
| 1,2-Dichlorobenzene           | ND           | 1.2    | 5                | 07/22/2025 21:17 |                 |          |
| 1,3-Dichlorobenzene           | ND           | 1.2    | 5                | 07/22/2025 21:17 |                 |          |
| 1,4-Dichlorobenzene           | ND           | 1.2    | 5                | 07/22/2025 21:17 |                 |          |
| 3,3-Dichlorobenzidine         | ND           | 0.0065 | 5                | 07/22/2025 21:17 |                 |          |
| 2,4-Dichlorophenol            | ND           | 0.012  | 5                | 07/22/2025 21:17 |                 |          |
| 2,6-Dichlorophenol            | ND           | 0.062  | 5                | 07/22/2025 21:17 |                 |          |
| Diethyl Phthalate             | ND           | 0.062  | 5                | 07/22/2025 21:17 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID                       | Lab ID       | Matrix | Date Collected   |                  | Instrument      | Batch ID |
|---------------------------------|--------------|--------|------------------|------------------|-----------------|----------|
| SB-08-1                         | 2507B37-015A | Soil   | 07/16/2025 11:35 |                  | GC47 07222526.D | 321880   |
| Analytes                        | Result       | RL     | DE               | Date Analyzed    |                 |          |
| 2,4-Dimethylphenol              | ND           | 1.2    | 5                | 07/22/2025 21:17 |                 |          |
| Dimethyl Phthalate              | ND           | 0.012  | 5                | 07/22/2025 21:17 |                 |          |
| 4,6-Dinitro-2-methylphenol      | ND           | 6.2    | 5                | 07/22/2025 21:17 |                 |          |
| 2,4-Dinitrophenol               | ND           | 1.2    | 5                | 07/22/2025 21:17 |                 |          |
| 2,4-Dinitrotoluene              | ND           | 0.062  | 5                | 07/22/2025 21:17 |                 |          |
| 2,6-Dinitrotoluene              | ND           | 0.062  | 5                | 07/22/2025 21:17 |                 |          |
| Di-n-octyl Phthalate            | ND           | 3.1    | 5                | 07/22/2025 21:17 |                 |          |
| 1,2-Diphenylhydrazine           | ND           | 1.2    | 5                | 07/22/2025 21:17 |                 |          |
| Fluoranthene                    | 0.041        | 0.012  | 5                | 07/22/2025 21:17 |                 |          |
| Fluorene                        | ND           | 0.012  | 5                | 07/22/2025 21:17 |                 |          |
| Hexachlorobenzene               | ND           | 0.0065 | 5                | 07/22/2025 21:17 |                 |          |
| Hexachlorobutadiene             | ND           | 0.0065 | 5                | 07/22/2025 21:17 |                 |          |
| Hexachlorocyclopentadiene       | ND           | 6.2    | 5                | 07/22/2025 21:17 |                 |          |
| Hexachloroethane                | ND           | 0.012  | 5                | 07/22/2025 21:17 |                 |          |
| Indeno (1,2,3-cd) pyrene        | 0.025        | 0.012  | 5                | 07/22/2025 21:17 |                 |          |
| Isophorone                      | ND           | 1.2    | 5                | 07/22/2025 21:17 |                 |          |
| 1-Methylnaphthalene             | ND           | 0.0065 | 5                | 07/22/2025 21:17 |                 |          |
| 2-Methylnaphthalene             | ND           | 0.0065 | 5                | 07/22/2025 21:17 |                 |          |
| 2-Methylphenol (o-Cresol)       | ND           | 1.2    | 5                | 07/22/2025 21:17 |                 |          |
| 3 & 4-Methylphenol (m,p-Cresol) | ND           | 1.2    | 5                | 07/22/2025 21:17 |                 |          |
| Naphthalene                     | ND           | 0.012  | 5                | 07/22/2025 21:17 |                 |          |
| 2-Nitroaniline                  | ND           | 6.2    | 5                | 07/22/2025 21:17 |                 |          |
| 3-Nitroaniline                  | ND           | 6.2    | 5                | 07/22/2025 21:17 |                 |          |
| 4-Nitroaniline                  | ND           | 6.2    | 5                | 07/22/2025 21:17 |                 |          |
| Nitrobenzene                    | ND           | 1.2    | 5                | 07/22/2025 21:17 |                 |          |
| 2-Nitrophenol                   | ND           | 6.2    | 5                | 07/22/2025 21:17 |                 |          |
| 4-Nitrophenol                   | ND           | 6.2    | 5                | 07/22/2025 21:17 |                 |          |
| N-Nitrosodiphenylamine          | ND           | 1.2    | 5                | 07/22/2025 21:17 |                 |          |
| N-Nitrosodi-n-propylamine       | ND           | 1.2    | 5                | 07/22/2025 21:17 |                 |          |
| Pentachlorophenol               | ND           | 0.31   | 5                | 07/22/2025 21:17 |                 |          |
| Phenanthrene                    | 0.026        | 0.0065 | 5                | 07/22/2025 21:17 |                 |          |
| Phenol                          | ND           | 0.050  | 5                | 07/22/2025 21:17 |                 |          |
| Pyrene                          | 0.055        | 0.0065 | 5                | 07/22/2025 21:17 |                 |          |
| Pyridine                        | ND           | 1.2    | 5                | 07/22/2025 21:17 |                 |          |
| 1,2,4-Trichlorobenzene          | ND           | 1.2    | 5                | 07/22/2025 21:17 |                 |          |
| 2,4,5-Trichlorophenol           | ND           | 0.012  | 5                | 07/22/2025 21:17 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-08-1   | 2507B37-015A | Soil   | 07/16/2025 11:35 | GC47 07222526.D | 321880   |

| Analytes                  | Result | RL    | DE | Date Analyzed    |
|---------------------------|--------|-------|----|------------------|
| 2,4,6-Trichlorophenol     | ND     | 0.012 | 5  | 07/22/2025 21:17 |
| N-Nitrosodimethylamine    | ND     | 1.2   | 5  | 07/22/2025 21:17 |
| 2,3,4,6-Tetrachlorophenol | ND     | 1.2   | 5  | 07/22/2025 21:17 |

| Surrogates           | REC (%) | Qualifiers | Limits | DE | Date Analyzed    |
|----------------------|---------|------------|--------|----|------------------|
| 2-Fluorophenol       | 75      |            | 60-130 | 5  | 07/22/2025 21:17 |
| Phenol-d5            | 75      |            | 60-130 | 5  | 07/22/2025 21:17 |
| Nitrobenzene-d5      | 70      |            | 60-130 | 5  | 07/22/2025 21:17 |
| 2-Fluorobiphenyl     | 68      |            | 60-130 | 5  | 07/22/2025 21:17 |
| 2,4,6-Tribromophenol | 46      | S          | 50-130 | 5  | 07/22/2025 21:17 |
| 4-Terphenyl-d14      | 80      |            | 50-130 | 5  | 07/22/2025 21:17 |

Analyst(s): LAT

Analytical Comments: c2,c1,h5



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID                     | Lab ID       | Matrix | Date Collected   |                  | Instrument      | Batch ID |
|-------------------------------|--------------|--------|------------------|------------------|-----------------|----------|
| SB-08-5                       | 2507B37-016A | Soil   | 07/16/2025 11:32 |                  | GC21 07222527.D | 321880   |
| Analytes                      | Result       | RL     | DE               | Date Analyzed    |                 |          |
| Acenaphthene                  | ND           | 0.0013 | 1                | 07/22/2025 21:04 |                 |          |
| Acenaphthylene                | ND           | 0.0013 | 1                | 07/22/2025 21:04 |                 |          |
| Acetochlor                    | ND           | 0.25   | 1                | 07/22/2025 21:04 |                 |          |
| Anthracene                    | ND           | 0.0013 | 1                | 07/22/2025 21:04 |                 |          |
| Benzidine                     | ND           | 1.2    | 1                | 07/22/2025 21:04 |                 |          |
| Benzo (a) anthracene          | ND           | 0.012  | 1                | 07/22/2025 21:04 |                 |          |
| Benzo (a) pyrene              | ND           | 0.0013 | 1                | 07/22/2025 21:04 |                 |          |
| Benzo (b) fluoranthene        | ND           | 0.0025 | 1                | 07/22/2025 21:04 |                 |          |
| Benzo (g,h,i) perylene        | ND           | 0.0025 | 1                | 07/22/2025 21:04 |                 |          |
| Benzo (k) fluoranthene        | ND           | 0.0025 | 1                | 07/22/2025 21:04 |                 |          |
| Benzoic Acid                  | ND           | 1.2    | 1                | 07/22/2025 21:04 |                 |          |
| Benzyl Alcohol                | ND           | 1.2    | 1                | 07/22/2025 21:04 |                 |          |
| 1,1-Biphenyl                  | ND           | 0.0050 | 1                | 07/22/2025 21:04 |                 |          |
| Bis (2-chloroethoxy) Methane  | ND           | 0.25   | 1                | 07/22/2025 21:04 |                 |          |
| Bis (2-chloroethyl) Ether     | ND           | 0.0013 | 1                | 07/22/2025 21:04 |                 |          |
| Bis (2-chloroisopropyl) Ether | ND           | 0.0025 | 1                | 07/22/2025 21:04 |                 |          |
| Bis (2-ethylhexyl) Adipate    | ND           | 0.25   | 1                | 07/22/2025 21:04 |                 |          |
| Bis (2-ethylhexyl) Phthalate  | ND           | 0.062  | 1                | 07/22/2025 21:04 |                 |          |
| 4-Bromophenyl Phenyl Ether    | ND           | 0.25   | 1                | 07/22/2025 21:04 |                 |          |
| Butylbenzyl Phthalate         | ND           | 0.062  | 1                | 07/22/2025 21:04 |                 |          |
| 4-Chloroaniline               | ND           | 0.0013 | 1                | 07/22/2025 21:04 |                 |          |
| 4-Chloro-3-methylphenol       | ND           | 0.25   | 1                | 07/22/2025 21:04 |                 |          |
| 2-Chloronaphthalene           | ND           | 0.25   | 1                | 07/22/2025 21:04 |                 |          |
| 2-Chlorophenol                | ND           | 0.012  | 1                | 07/22/2025 21:04 |                 |          |
| 4-Chlorophenyl Phenyl Ether   | ND           | 0.25   | 1                | 07/22/2025 21:04 |                 |          |
| Chrysene                      | ND           | 0.0013 | 1                | 07/22/2025 21:04 |                 |          |
| Dibenzo (a,h) anthracene      | ND           | 0.0025 | 1                | 07/22/2025 21:04 |                 |          |
| Dibenzofuran                  | ND           | 0.0013 | 1                | 07/22/2025 21:04 |                 |          |
| Di-n-butyl Phthalate          | ND           | 0.062  | 1                | 07/22/2025 21:04 |                 |          |
| 1,2-Dichlorobenzene           | ND           | 0.25   | 1                | 07/22/2025 21:04 |                 |          |
| 1,3-Dichlorobenzene           | ND           | 0.25   | 1                | 07/22/2025 21:04 |                 |          |
| 1,4-Dichlorobenzene           | ND           | 0.25   | 1                | 07/22/2025 21:04 |                 |          |
| 3,3-Dichlorobenzidine         | ND           | 0.0013 | 1                | 07/22/2025 21:04 |                 |          |
| 2,4-Dichlorophenol            | ND           | 0.0025 | 1                | 07/22/2025 21:04 |                 |          |
| 2,6-Dichlorophenol            | ND           | 0.012  | 1                | 07/22/2025 21:04 |                 |          |
| Diethyl Phthalate             | ND           | 0.012  | 1                | 07/22/2025 21:04 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID                       | Lab ID       | Matrix | Date Collected   |                  | Instrument      | Batch ID |
|---------------------------------|--------------|--------|------------------|------------------|-----------------|----------|
| SB-08-5                         | 2507B37-016A | Soil   | 07/16/2025 11:32 |                  | GC21 07222527.D | 321880   |
| Analytes                        | Result       | RL     | DE               | Date Analyzed    |                 |          |
| 2,4-Dimethylphenol              | ND           | 0.25   | 1                | 07/22/2025 21:04 |                 |          |
| Dimethyl Phthalate              | ND           | 0.0025 | 1                | 07/22/2025 21:04 |                 |          |
| 4,6-Dinitro-2-methylphenol      | ND           | 1.2    | 1                | 07/22/2025 21:04 |                 |          |
| 2,4-Dinitrophenol               | ND           | 0.25   | 1                | 07/22/2025 21:04 |                 |          |
| 2,4-Dinitrotoluene              | ND           | 0.012  | 1                | 07/22/2025 21:04 |                 |          |
| 2,6-Dinitrotoluene              | ND           | 0.012  | 1                | 07/22/2025 21:04 |                 |          |
| Di-n-octyl Phthalate            | ND           | 0.62   | 1                | 07/22/2025 21:04 |                 |          |
| 1,2-Diphenylhydrazine           | ND           | 0.25   | 1                | 07/22/2025 21:04 |                 |          |
| Fluoranthene                    | ND           | 0.0025 | 1                | 07/22/2025 21:04 |                 |          |
| Fluorene                        | ND           | 0.0025 | 1                | 07/22/2025 21:04 |                 |          |
| Hexachlorobenzene               | ND           | 0.0013 | 1                | 07/22/2025 21:04 |                 |          |
| Hexachlorobutadiene             | ND           | 0.0013 | 1                | 07/22/2025 21:04 |                 |          |
| Hexachlorocyclopentadiene       | ND           | 1.2    | 1                | 07/22/2025 21:04 |                 |          |
| Hexachloroethane                | ND           | 0.0025 | 1                | 07/22/2025 21:04 |                 |          |
| Indeno (1,2,3-cd) pyrene        | ND           | 0.0025 | 1                | 07/22/2025 21:04 |                 |          |
| Isophorone                      | ND           | 0.25   | 1                | 07/22/2025 21:04 |                 |          |
| 1-Methylnaphthalene             | ND           | 0.0013 | 1                | 07/22/2025 21:04 |                 |          |
| 2-Methylnaphthalene             | ND           | 0.0013 | 1                | 07/22/2025 21:04 |                 |          |
| 2-Methylphenol (o-Cresol)       | ND           | 0.25   | 1                | 07/22/2025 21:04 |                 |          |
| 3 & 4-Methylphenol (m,p-Cresol) | ND           | 0.25   | 1                | 07/22/2025 21:04 |                 |          |
| Naphthalene                     | ND           | 0.0025 | 1                | 07/22/2025 21:04 |                 |          |
| 2-Nitroaniline                  | ND           | 1.2    | 1                | 07/22/2025 21:04 |                 |          |
| 3-Nitroaniline                  | ND           | 1.2    | 1                | 07/22/2025 21:04 |                 |          |
| 4-Nitroaniline                  | ND           | 1.2    | 1                | 07/22/2025 21:04 |                 |          |
| Nitrobenzene                    | ND           | 0.25   | 1                | 07/22/2025 21:04 |                 |          |
| 2-Nitrophenol                   | ND           | 1.2    | 1                | 07/22/2025 21:04 |                 |          |
| 4-Nitrophenol                   | ND           | 1.2    | 1                | 07/22/2025 21:04 |                 |          |
| N-Nitrosodiphenylamine          | ND           | 0.25   | 1                | 07/22/2025 21:04 |                 |          |
| N-Nitrosodi-n-propylamine       | ND           | 0.25   | 1                | 07/22/2025 21:04 |                 |          |
| Pentachlorophenol               | ND           | 0.062  | 1                | 07/22/2025 21:04 |                 |          |
| Phenanthrene                    | 0.0022       | 0.0013 | 1                | 07/22/2025 21:04 |                 |          |
| Phenol                          | ND           | 0.010  | 1                | 07/22/2025 21:04 |                 |          |
| Pyrene                          | ND           | 0.0013 | 1                | 07/22/2025 21:04 |                 |          |
| Pyridine                        | ND           | 0.25   | 1                | 07/22/2025 21:04 |                 |          |
| 1,2,4-Trichlorobenzene          | ND           | 0.25   | 1                | 07/22/2025 21:04 |                 |          |
| 2,4,5-Trichlorophenol           | ND           | 0.0025 | 1                | 07/22/2025 21:04 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-08-5   | 2507B37-016A | Soil   | 07/16/2025 11:32 | GC21 07222527.D | 321880   |

| Analytes                  | Result | RL     | DE | Date Analyzed    |
|---------------------------|--------|--------|----|------------------|
| 2,4,6-Trichlorophenol     | ND     | 0.0025 | 1  | 07/22/2025 21:04 |
| N-Nitrosodimethylamine    | ND     | 0.25   | 1  | 07/22/2025 21:04 |
| 2,3,4,6-Tetrachlorophenol | ND     | 0.25   | 1  | 07/22/2025 21:04 |

| Surrogates           | REC (%) | Limits | DE | Date Analyzed    |
|----------------------|---------|--------|----|------------------|
| 2-Fluorophenol       | 89      | 60-130 | 1  | 07/22/2025 21:04 |
| Phenol-d5            | 90      | 60-130 | 1  | 07/22/2025 21:04 |
| Nitrobenzene-d5      | 98      | 60-130 | 1  | 07/22/2025 21:04 |
| 2-Fluorobiphenyl     | 79      | 60-130 | 1  | 07/22/2025 21:04 |
| 2,4,6-Tribromophenol | 77      | 50-130 | 1  | 07/22/2025 21:04 |
| 4-Terphenyl-d14      | 75      | 50-130 | 1  | 07/22/2025 21:04 |

**Analyst(s):** LAT

**Analytical Comments:** h5



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID                     | Lab ID       | Matrix | Date Collected   |                  | Instrument      | Batch ID |
|-------------------------------|--------------|--------|------------------|------------------|-----------------|----------|
| SB-09-1                       | 2507B37-017A | Soil   | 07/16/2025 11:56 |                  | GC48 07232518.D | 321880   |
| Analytes                      | Result       | RL     | DE               | Date Analyzed    |                 |          |
| Acenaphthene                  | ND           | 0.0013 | 1                | 07/23/2025 17:31 |                 |          |
| Acenaphthylene                | 0.0053       | 0.0013 | 1                | 07/23/2025 17:31 |                 |          |
| Acetochlor                    | ND           | 0.25   | 1                | 07/23/2025 17:31 |                 |          |
| Anthracene                    | 0.0018       | 0.0013 | 1                | 07/23/2025 17:31 |                 |          |
| Benzidine                     | ND           | 1.2    | 1                | 07/23/2025 17:31 |                 |          |
| Benzo (a) anthracene          | 0.019        | 0.012  | 1                | 07/23/2025 17:31 |                 |          |
| Benzo (a) pyrene              | 0.029        | 0.0013 | 1                | 07/23/2025 17:31 |                 |          |
| Benzo (b) fluoranthene        | 0.032        | 0.0025 | 1                | 07/23/2025 17:31 |                 |          |
| Benzo (g,h,i) perylene        | 0.033        | 0.0025 | 1                | 07/23/2025 17:31 |                 |          |
| Benzo (k) fluoranthene        | 0.0081       | 0.0025 | 1                | 07/23/2025 17:31 |                 |          |
| Benzoic Acid                  | ND           | 1.2    | 1                | 07/23/2025 17:31 |                 |          |
| Benzyl Alcohol                | ND           | 1.2    | 1                | 07/23/2025 17:31 |                 |          |
| 1,1-Biphenyl                  | ND           | 0.0050 | 1                | 07/23/2025 17:31 |                 |          |
| Bis (2-chloroethoxy) Methane  | ND           | 0.25   | 1                | 07/23/2025 17:31 |                 |          |
| Bis (2-chloroethyl) Ether     | ND           | 0.0013 | 1                | 07/23/2025 17:31 |                 |          |
| Bis (2-chloroisopropyl) Ether | ND           | 0.0025 | 1                | 07/23/2025 17:31 |                 |          |
| Bis (2-ethylhexyl) Adipate    | ND           | 0.25   | 1                | 07/23/2025 17:31 |                 |          |
| Bis (2-ethylhexyl) Phthalate  | ND           | 0.062  | 1                | 07/23/2025 17:31 |                 |          |
| 4-Bromophenyl Phenyl Ether    | ND           | 0.25   | 1                | 07/23/2025 17:31 |                 |          |
| Butylbenzyl Phthalate         | ND           | 0.062  | 1                | 07/23/2025 17:31 |                 |          |
| 4-Chloroaniline               | ND           | 0.0013 | 1                | 07/23/2025 17:31 |                 |          |
| 4-Chloro-3-methylphenol       | ND           | 0.25   | 1                | 07/23/2025 17:31 |                 |          |
| 2-Chloronaphthalene           | ND           | 0.25   | 1                | 07/23/2025 17:31 |                 |          |
| 2-Chlorophenol                | ND           | 0.012  | 1                | 07/23/2025 17:31 |                 |          |
| 4-Chlorophenyl Phenyl Ether   | ND           | 0.25   | 1                | 07/23/2025 17:31 |                 |          |
| Chrysene                      | 0.022        | 0.0013 | 1                | 07/23/2025 17:31 |                 |          |
| Dibenzo (a,h) anthracene      | 0.0038       | 0.0025 | 1                | 07/23/2025 17:31 |                 |          |
| Dibenzofuran                  | ND           | 0.0013 | 1                | 07/23/2025 17:31 |                 |          |
| Di-n-butyl Phthalate          | ND           | 0.062  | 1                | 07/23/2025 17:31 |                 |          |
| 1,2-Dichlorobenzene           | ND           | 0.25   | 1                | 07/23/2025 17:31 |                 |          |
| 1,3-Dichlorobenzene           | ND           | 0.25   | 1                | 07/23/2025 17:31 |                 |          |
| 1,4-Dichlorobenzene           | ND           | 0.25   | 1                | 07/23/2025 17:31 |                 |          |
| 3,3-Dichlorobenzidine         | ND           | 0.0013 | 1                | 07/23/2025 17:31 |                 |          |
| 2,4-Dichlorophenol            | ND           | 0.0025 | 1                | 07/23/2025 17:31 |                 |          |
| 2,6-Dichlorophenol            | ND           | 0.012  | 1                | 07/23/2025 17:31 |                 |          |
| Diethyl Phthalate             | ND           | 0.012  | 1                | 07/23/2025 17:31 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID                       | Lab ID       | Matrix | Date Collected   |                  | Instrument      | Batch ID |
|---------------------------------|--------------|--------|------------------|------------------|-----------------|----------|
| SB-09-1                         | 2507B37-017A | Soil   | 07/16/2025 11:56 |                  | GC48 07232518.D | 321880   |
| Analytes                        | Result       | RL     | DE               | Date Analyzed    |                 |          |
| 2,4-Dimethylphenol              | ND           | 0.25   | 1                | 07/23/2025 17:31 |                 |          |
| Dimethyl Phthalate              | ND           | 0.0025 | 1                | 07/23/2025 17:31 |                 |          |
| 4,6-Dinitro-2-methylphenol      | ND           | 1.2    | 1                | 07/23/2025 17:31 |                 |          |
| 2,4-Dinitrophenol               | ND           | 0.25   | 1                | 07/23/2025 17:31 |                 |          |
| 2,4-Dinitrotoluene              | ND           | 0.012  | 1                | 07/23/2025 17:31 |                 |          |
| 2,6-Dinitrotoluene              | ND           | 0.012  | 1                | 07/23/2025 17:31 |                 |          |
| Di-n-octyl Phthalate            | ND           | 0.62   | 1                | 07/23/2025 17:31 |                 |          |
| 1,2-Diphenylhydrazine           | ND           | 0.25   | 1                | 07/23/2025 17:31 |                 |          |
| Fluoranthene                    | 0.036        | 0.0025 | 1                | 07/23/2025 17:31 |                 |          |
| Fluorene                        | ND           | 0.0025 | 1                | 07/23/2025 17:31 |                 |          |
| Hexachlorobenzene               | ND           | 0.0013 | 1                | 07/23/2025 17:31 |                 |          |
| Hexachlorobutadiene             | ND           | 0.0013 | 1                | 07/23/2025 17:31 |                 |          |
| Hexachlorocyclopentadiene       | ND           | 1.2    | 1                | 07/23/2025 17:31 |                 |          |
| Hexachloroethane                | ND           | 0.0025 | 1                | 07/23/2025 17:31 |                 |          |
| Indeno (1,2,3-cd) pyrene        | 0.022        | 0.0025 | 1                | 07/23/2025 17:31 |                 |          |
| Isophorone                      | ND           | 0.25   | 1                | 07/23/2025 17:31 |                 |          |
| 1-Methylnaphthalene             | ND           | 0.0013 | 1                | 07/23/2025 17:31 |                 |          |
| 2-Methylnaphthalene             | ND           | 0.0013 | 1                | 07/23/2025 17:31 |                 |          |
| 2-Methylphenol (o-Cresol)       | ND           | 0.25   | 1                | 07/23/2025 17:31 |                 |          |
| 3 & 4-Methylphenol (m,p-Cresol) | ND           | 0.25   | 1                | 07/23/2025 17:31 |                 |          |
| Naphthalene                     | ND           | 0.0025 | 1                | 07/23/2025 17:31 |                 |          |
| 2-Nitroaniline                  | ND           | 1.2    | 1                | 07/23/2025 17:31 |                 |          |
| 3-Nitroaniline                  | ND           | 1.2    | 1                | 07/23/2025 17:31 |                 |          |
| 4-Nitroaniline                  | ND           | 1.2    | 1                | 07/23/2025 17:31 |                 |          |
| Nitrobenzene                    | ND           | 0.25   | 1                | 07/23/2025 17:31 |                 |          |
| 2-Nitrophenol                   | ND           | 1.2    | 1                | 07/23/2025 17:31 |                 |          |
| 4-Nitrophenol                   | ND           | 1.2    | 1                | 07/23/2025 17:31 |                 |          |
| N-Nitrosodiphenylamine          | ND           | 0.25   | 1                | 07/23/2025 17:31 |                 |          |
| N-Nitrosodi-n-propylamine       | ND           | 0.25   | 1                | 07/23/2025 17:31 |                 |          |
| Pentachlorophenol               | ND           | 0.062  | 1                | 07/23/2025 17:31 |                 |          |
| Phenanthrene                    | 0.021        | 0.0013 | 1                | 07/23/2025 17:31 |                 |          |
| Phenol                          | ND           | 0.010  | 1                | 07/23/2025 17:31 |                 |          |
| Pyrene                          | 0.046        | 0.0013 | 1                | 07/23/2025 17:31 |                 |          |
| Pyridine                        | ND           | 0.25   | 1                | 07/23/2025 17:31 |                 |          |
| 1,2,4-Trichlorobenzene          | ND           | 0.25   | 1                | 07/23/2025 17:31 |                 |          |
| 2,4,5-Trichlorophenol           | ND           | 0.0025 | 1                | 07/23/2025 17:31 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-09-1   | 2507B37-017A | Soil   | 07/16/2025 11:56 | GC48 07232518.D | 321880   |

| Analytes                  | Result | RL     | DE | Date Analyzed    |
|---------------------------|--------|--------|----|------------------|
| 2,4,6-Trichlorophenol     | ND     | 0.0025 | 1  | 07/23/2025 17:31 |
| N-Nitrosodimethylamine    | ND     | 0.25   | 1  | 07/23/2025 17:31 |
| 2,3,4,6-Tetrachlorophenol | ND     | 0.25   | 1  | 07/23/2025 17:31 |

| Surrogates           | REC (%) | Limits | DE | Date Analyzed    |
|----------------------|---------|--------|----|------------------|
| 2-Fluorophenol       | 71      | 60-130 | 1  | 07/23/2025 17:31 |
| Phenol-d5            | 66      | 60-130 | 1  | 07/23/2025 17:31 |
| Nitrobenzene-d5      | 67      | 60-130 | 1  | 07/23/2025 17:31 |
| 2-Fluorobiphenyl     | 64      | 60-130 | 1  | 07/23/2025 17:31 |
| 2,4,6-Tribromophenol | 71      | 50-130 | 1  | 07/23/2025 17:31 |
| 4-Terphenyl-d14      | 72      | 50-130 | 1  | 07/23/2025 17:31 |

**Analyst(s):** SPA

**Analytical Comments:** h5



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-09-5   | 2507B37-018A | Soil   | 07/16/2025 11:53 | GC48 07222522.D | 321880   |

| Analytes                      | Result | RL     | DE | Date Analyzed    |
|-------------------------------|--------|--------|----|------------------|
| Acenaphthene                  | ND     | 0.0013 | 1  | 07/22/2025 18:49 |
| Acenaphthylene                | ND     | 0.0013 | 1  | 07/22/2025 18:49 |
| Acetochlor                    | ND     | 0.25   | 1  | 07/22/2025 18:49 |
| Anthracene                    | ND     | 0.0013 | 1  | 07/22/2025 18:49 |
| Benzidine                     | ND     | 1.2    | 1  | 07/22/2025 18:49 |
| Benzo (a) anthracene          | ND     | 0.012  | 1  | 07/22/2025 18:49 |
| Benzo (a) pyrene              | 0.0017 | 0.0013 | 1  | 07/22/2025 18:49 |
| Benzo (b) fluoranthene        | ND     | 0.0025 | 1  | 07/22/2025 18:49 |
| Benzo (g,h,i) perylene        | ND     | 0.0025 | 1  | 07/22/2025 18:49 |
| Benzo (k) fluoranthene        | ND     | 0.0025 | 1  | 07/22/2025 18:49 |
| Benzoic Acid                  | ND     | 1.2    | 1  | 07/22/2025 18:49 |
| Benzyl Alcohol                | ND     | 1.2    | 1  | 07/22/2025 18:49 |
| 1,1-Biphenyl                  | ND     | 0.0050 | 1  | 07/22/2025 18:49 |
| Bis (2-chloroethoxy) Methane  | ND     | 0.25   | 1  | 07/22/2025 18:49 |
| Bis (2-chloroethyl) Ether     | ND     | 0.0013 | 1  | 07/22/2025 18:49 |
| Bis (2-chloroisopropyl) Ether | ND     | 0.0025 | 1  | 07/22/2025 18:49 |
| Bis (2-ethylhexyl) Adipate    | ND     | 0.25   | 1  | 07/22/2025 18:49 |
| Bis (2-ethylhexyl) Phthalate  | ND     | 0.062  | 1  | 07/22/2025 18:49 |
| 4-Bromophenyl Phenyl Ether    | ND     | 0.25   | 1  | 07/22/2025 18:49 |
| Butylbenzyl Phthalate         | ND     | 0.062  | 1  | 07/22/2025 18:49 |
| 4-Chloroaniline               | ND     | 0.0013 | 1  | 07/22/2025 18:49 |
| 4-Chloro-3-methylphenol       | ND     | 0.25   | 1  | 07/22/2025 18:49 |
| 2-Chloronaphthalene           | ND     | 0.25   | 1  | 07/22/2025 18:49 |
| 2-Chlorophenol                | ND     | 0.012  | 1  | 07/22/2025 18:49 |
| 4-Chlorophenyl Phenyl Ether   | ND     | 0.25   | 1  | 07/22/2025 18:49 |
| Chrysene                      | ND     | 0.0013 | 1  | 07/22/2025 18:49 |
| Dibenzo (a,h) anthracene      | ND     | 0.0025 | 1  | 07/22/2025 18:49 |
| Dibenzofuran                  | ND     | 0.0013 | 1  | 07/22/2025 18:49 |
| Di-n-butyl Phthalate          | ND     | 0.062  | 1  | 07/22/2025 18:49 |
| 1,2-Dichlorobenzene           | ND     | 0.25   | 1  | 07/22/2025 18:49 |
| 1,3-Dichlorobenzene           | ND     | 0.25   | 1  | 07/22/2025 18:49 |
| 1,4-Dichlorobenzene           | ND     | 0.25   | 1  | 07/22/2025 18:49 |
| 3,3-Dichlorobenzidine         | ND     | 0.0013 | 1  | 07/22/2025 18:49 |
| 2,4-Dichlorophenol            | ND     | 0.0025 | 1  | 07/22/2025 18:49 |
| 2,6-Dichlorophenol            | ND     | 0.012  | 1  | 07/22/2025 18:49 |
| Diethyl Phthalate             | ND     | 0.012  | 1  | 07/22/2025 18:49 |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID                       | Lab ID       | Matrix | Date Collected   |                  | Instrument      | Batch ID |
|---------------------------------|--------------|--------|------------------|------------------|-----------------|----------|
| SB-09-5                         | 2507B37-018A | Soil   | 07/16/2025 11:53 |                  | GC48 07222522.D | 321880   |
| Analytes                        | Result       | RL     | DE               | Date Analyzed    |                 |          |
| 2,4-Dimethylphenol              | ND           | 0.25   | 1                | 07/22/2025 18:49 |                 |          |
| Dimethyl Phthalate              | ND           | 0.0025 | 1                | 07/22/2025 18:49 |                 |          |
| 4,6-Dinitro-2-methylphenol      | ND           | 1.2    | 1                | 07/22/2025 18:49 |                 |          |
| 2,4-Dinitrophenol               | ND           | 0.25   | 1                | 07/22/2025 18:49 |                 |          |
| 2,4-Dinitrotoluene              | ND           | 0.012  | 1                | 07/22/2025 18:49 |                 |          |
| 2,6-Dinitrotoluene              | ND           | 0.012  | 1                | 07/22/2025 18:49 |                 |          |
| Di-n-octyl Phthalate            | ND           | 0.62   | 1                | 07/22/2025 18:49 |                 |          |
| 1,2-Diphenylhydrazine           | ND           | 0.25   | 1                | 07/22/2025 18:49 |                 |          |
| Fluoranthene                    | ND           | 0.0025 | 1                | 07/22/2025 18:49 |                 |          |
| Fluorene                        | ND           | 0.0025 | 1                | 07/22/2025 18:49 |                 |          |
| Hexachlorobenzene               | ND           | 0.0013 | 1                | 07/22/2025 18:49 |                 |          |
| Hexachlorobutadiene             | ND           | 0.0013 | 1                | 07/22/2025 18:49 |                 |          |
| Hexachlorocyclopentadiene       | ND           | 1.2    | 1                | 07/22/2025 18:49 |                 |          |
| Hexachloroethane                | ND           | 0.0025 | 1                | 07/22/2025 18:49 |                 |          |
| Indeno (1,2,3-cd) pyrene        | ND           | 0.0025 | 1                | 07/22/2025 18:49 |                 |          |
| Isophorone                      | ND           | 0.25   | 1                | 07/22/2025 18:49 |                 |          |
| 1-Methylnaphthalene             | ND           | 0.0013 | 1                | 07/22/2025 18:49 |                 |          |
| 2-Methylnaphthalene             | ND           | 0.0013 | 1                | 07/22/2025 18:49 |                 |          |
| 2-Methylphenol (o-Cresol)       | ND           | 0.25   | 1                | 07/22/2025 18:49 |                 |          |
| 3 & 4-Methylphenol (m,p-Cresol) | ND           | 0.25   | 1                | 07/22/2025 18:49 |                 |          |
| Naphthalene                     | ND           | 0.0025 | 1                | 07/22/2025 18:49 |                 |          |
| 2-Nitroaniline                  | ND           | 1.2    | 1                | 07/22/2025 18:49 |                 |          |
| 3-Nitroaniline                  | ND           | 1.2    | 1                | 07/22/2025 18:49 |                 |          |
| 4-Nitroaniline                  | ND           | 1.2    | 1                | 07/22/2025 18:49 |                 |          |
| Nitrobenzene                    | ND           | 0.25   | 1                | 07/22/2025 18:49 |                 |          |
| 2-Nitrophenol                   | ND           | 1.2    | 1                | 07/22/2025 18:49 |                 |          |
| 4-Nitrophenol                   | ND           | 1.2    | 1                | 07/22/2025 18:49 |                 |          |
| N-Nitrosodiphenylamine          | ND           | 0.25   | 1                | 07/22/2025 18:49 |                 |          |
| N-Nitrosodi-n-propylamine       | ND           | 0.25   | 1                | 07/22/2025 18:49 |                 |          |
| Pentachlorophenol               | ND           | 0.062  | 1                | 07/22/2025 18:49 |                 |          |
| Phenanthrene                    | 0.0014       | 0.0013 | 1                | 07/22/2025 18:49 |                 |          |
| Phenol                          | ND           | 0.010  | 1                | 07/22/2025 18:49 |                 |          |
| Pyrene                          | 0.0028       | 0.0013 | 1                | 07/22/2025 18:49 |                 |          |
| Pyridine                        | ND           | 0.25   | 1                | 07/22/2025 18:49 |                 |          |
| 1,2,4-Trichlorobenzene          | ND           | 0.25   | 1                | 07/22/2025 18:49 |                 |          |
| 2,4,5-Trichlorophenol           | ND           | 0.0025 | 1                | 07/22/2025 18:49 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-09-5   | 2507B37-018A | Soil   | 07/16/2025 11:53 | GC48 07222522.D | 321880   |

| Analytes                  | Result | RL     | DE | Date Analyzed    |
|---------------------------|--------|--------|----|------------------|
| 2,4,6-Trichlorophenol     | ND     | 0.0025 | 1  | 07/22/2025 18:49 |
| N-Nitrosodimethylamine    | ND     | 0.25   | 1  | 07/22/2025 18:49 |
| 2,3,4,6-Tetrachlorophenol | ND     | 0.25   | 1  | 07/22/2025 18:49 |

| Surrogates           | REC (%) | Limits | DE | Date Analyzed    |
|----------------------|---------|--------|----|------------------|
| 2-Fluorophenol       | 80      | 60-130 | 1  | 07/22/2025 18:49 |
| Phenol-d5            | 73      | 60-130 | 1  | 07/22/2025 18:49 |
| Nitrobenzene-d5      | 79      | 60-130 | 1  | 07/22/2025 18:49 |
| 2-Fluorobiphenyl     | 78      | 60-130 | 1  | 07/22/2025 18:49 |
| 2,4,6-Tribromophenol | 75      | 50-130 | 1  | 07/22/2025 18:49 |
| 4-Terphenyl-d14      | 74      | 50-130 | 1  | 07/22/2025 18:49 |

**Analyst(s):** LAT

**Analytical Comments:** h5



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID                     | Lab ID       | Matrix | Date Collected   |                  | Instrument      | Batch ID |
|-------------------------------|--------------|--------|------------------|------------------|-----------------|----------|
| SB-04-8.5                     | 2507B37-019A | Soil   | 07/16/2025 10:46 |                  | GC48 07222524.D | 321880   |
| Analytes                      | Result       | RL     | DE               | Date Analyzed    |                 |          |
| Acenaphthene                  | ND           | 0.0013 | 1                | 07/22/2025 19:42 |                 |          |
| Acenaphthylene                | ND           | 0.0013 | 1                | 07/22/2025 19:42 |                 |          |
| Acetochlor                    | ND           | 0.25   | 1                | 07/22/2025 19:42 |                 |          |
| Anthracene                    | ND           | 0.0013 | 1                | 07/22/2025 19:42 |                 |          |
| Benzidine                     | ND           | 1.2    | 1                | 07/22/2025 19:42 |                 |          |
| Benzo (a) anthracene          | ND           | 0.012  | 1                | 07/22/2025 19:42 |                 |          |
| Benzo (a) pyrene              | ND           | 0.0013 | 1                | 07/22/2025 19:42 |                 |          |
| Benzo (b) fluoranthene        | ND           | 0.0025 | 1                | 07/22/2025 19:42 |                 |          |
| Benzo (g,h,i) perylene        | ND           | 0.0025 | 1                | 07/22/2025 19:42 |                 |          |
| Benzo (k) fluoranthene        | ND           | 0.0025 | 1                | 07/22/2025 19:42 |                 |          |
| Benzoic Acid                  | ND           | 1.2    | 1                | 07/22/2025 19:42 |                 |          |
| Benzyl Alcohol                | ND           | 1.2    | 1                | 07/22/2025 19:42 |                 |          |
| 1,1-Biphenyl                  | ND           | 0.0050 | 1                | 07/22/2025 19:42 |                 |          |
| Bis (2-chloroethoxy) Methane  | ND           | 0.25   | 1                | 07/22/2025 19:42 |                 |          |
| Bis (2-chloroethyl) Ether     | ND           | 0.0013 | 1                | 07/22/2025 19:42 |                 |          |
| Bis (2-chloroisopropyl) Ether | ND           | 0.0025 | 1                | 07/22/2025 19:42 |                 |          |
| Bis (2-ethylhexyl) Adipate    | ND           | 0.25   | 1                | 07/22/2025 19:42 |                 |          |
| Bis (2-ethylhexyl) Phthalate  | ND           | 0.062  | 1                | 07/22/2025 19:42 |                 |          |
| 4-Bromophenyl Phenyl Ether    | ND           | 0.25   | 1                | 07/22/2025 19:42 |                 |          |
| Butylbenzyl Phthalate         | ND           | 0.062  | 1                | 07/22/2025 19:42 |                 |          |
| 4-Chloroaniline               | ND           | 0.0013 | 1                | 07/22/2025 19:42 |                 |          |
| 4-Chloro-3-methylphenol       | ND           | 0.25   | 1                | 07/22/2025 19:42 |                 |          |
| 2-Chloronaphthalene           | ND           | 0.25   | 1                | 07/22/2025 19:42 |                 |          |
| 2-Chlorophenol                | ND           | 0.012  | 1                | 07/22/2025 19:42 |                 |          |
| 4-Chlorophenyl Phenyl Ether   | ND           | 0.25   | 1                | 07/22/2025 19:42 |                 |          |
| Chrysene                      | ND           | 0.0013 | 1                | 07/22/2025 19:42 |                 |          |
| Dibenzo (a,h) anthracene      | ND           | 0.0025 | 1                | 07/22/2025 19:42 |                 |          |
| Dibenzofuran                  | ND           | 0.0013 | 1                | 07/22/2025 19:42 |                 |          |
| Di-n-butyl Phthalate          | ND           | 0.062  | 1                | 07/22/2025 19:42 |                 |          |
| 1,2-Dichlorobenzene           | ND           | 0.25   | 1                | 07/22/2025 19:42 |                 |          |
| 1,3-Dichlorobenzene           | ND           | 0.25   | 1                | 07/22/2025 19:42 |                 |          |
| 1,4-Dichlorobenzene           | ND           | 0.25   | 1                | 07/22/2025 19:42 |                 |          |
| 3,3-Dichlorobenzidine         | ND           | 0.0013 | 1                | 07/22/2025 19:42 |                 |          |
| 2,4-Dichlorophenol            | ND           | 0.0025 | 1                | 07/22/2025 19:42 |                 |          |
| 2,6-Dichlorophenol            | ND           | 0.012  | 1                | 07/22/2025 19:42 |                 |          |
| Diethyl Phthalate             | ND           | 0.012  | 1                | 07/22/2025 19:42 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-04-8.5 | 2507B37-019A | Soil   | 07/16/2025 10:46 | GC48 07222524.D | 321880   |

| Analytes                        | Result | RL     | DE | Date Analyzed    |
|---------------------------------|--------|--------|----|------------------|
| 2,4-Dimethylphenol              | ND     | 0.25   | 1  | 07/22/2025 19:42 |
| Dimethyl Phthalate              | ND     | 0.0025 | 1  | 07/22/2025 19:42 |
| 4,6-Dinitro-2-methylphenol      | ND     | 1.2    | 1  | 07/22/2025 19:42 |
| 2,4-Dinitrophenol               | ND     | 0.25   | 1  | 07/22/2025 19:42 |
| 2,4-Dinitrotoluene              | ND     | 0.012  | 1  | 07/22/2025 19:42 |
| 2,6-Dinitrotoluene              | ND     | 0.012  | 1  | 07/22/2025 19:42 |
| Di-n-octyl Phthalate            | ND     | 0.62   | 1  | 07/22/2025 19:42 |
| 1,2-Diphenylhydrazine           | ND     | 0.25   | 1  | 07/22/2025 19:42 |
| Fluoranthene                    | ND     | 0.0025 | 1  | 07/22/2025 19:42 |
| Fluorene                        | ND     | 0.0025 | 1  | 07/22/2025 19:42 |
| Hexachlorobenzene               | ND     | 0.0013 | 1  | 07/22/2025 19:42 |
| Hexachlorobutadiene             | ND     | 0.0013 | 1  | 07/22/2025 19:42 |
| Hexachlorocyclopentadiene       | ND     | 1.2    | 1  | 07/22/2025 19:42 |
| Hexachloroethane                | ND     | 0.0025 | 1  | 07/22/2025 19:42 |
| Indeno (1,2,3-cd) pyrene        | ND     | 0.0025 | 1  | 07/22/2025 19:42 |
| Isophorone                      | ND     | 0.25   | 1  | 07/22/2025 19:42 |
| 1-Methylnaphthalene             | ND     | 0.0013 | 1  | 07/22/2025 19:42 |
| 2-Methylnaphthalene             | ND     | 0.0013 | 1  | 07/22/2025 19:42 |
| 2-Methylphenol (o-Cresol)       | ND     | 0.25   | 1  | 07/22/2025 19:42 |
| 3 & 4-Methylphenol (m,p-Cresol) | ND     | 0.25   | 1  | 07/22/2025 19:42 |
| Naphthalene                     | ND     | 0.0025 | 1  | 07/22/2025 19:42 |
| 2-Nitroaniline                  | ND     | 1.2    | 1  | 07/22/2025 19:42 |
| 3-Nitroaniline                  | ND     | 1.2    | 1  | 07/22/2025 19:42 |
| 4-Nitroaniline                  | ND     | 1.2    | 1  | 07/22/2025 19:42 |
| Nitrobenzene                    | ND     | 0.25   | 1  | 07/22/2025 19:42 |
| 2-Nitrophenol                   | ND     | 1.2    | 1  | 07/22/2025 19:42 |
| 4-Nitrophenol                   | ND     | 1.2    | 1  | 07/22/2025 19:42 |
| N-Nitrosodiphenylamine          | ND     | 0.25   | 1  | 07/22/2025 19:42 |
| N-Nitrosodi-n-propylamine       | ND     | 0.25   | 1  | 07/22/2025 19:42 |
| Pentachlorophenol               | ND     | 0.062  | 1  | 07/22/2025 19:42 |
| Phenanthrene                    | ND     | 0.0013 | 1  | 07/22/2025 19:42 |
| Phenol                          | ND     | 0.010  | 1  | 07/22/2025 19:42 |
| Pyrene                          | ND     | 0.0013 | 1  | 07/22/2025 19:42 |
| Pyridine                        | ND     | 0.25   | 1  | 07/22/2025 19:42 |
| 1,2,4-Trichlorobenzene          | ND     | 0.25   | 1  | 07/22/2025 19:42 |
| 2,4,5-Trichlorophenol           | ND     | 0.0025 | 1  | 07/22/2025 19:42 |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-04-8.5 | 2507B37-019A | Soil   | 07/16/2025 10:46 | GC48 07222524.D | 321880   |

| Analytes                  | Result | RL     | DE | Date Analyzed    |
|---------------------------|--------|--------|----|------------------|
| 2,4,6-Trichlorophenol     | ND     | 0.0025 | 1  | 07/22/2025 19:42 |
| N-Nitrosodimethylamine    | ND     | 0.25   | 1  | 07/22/2025 19:42 |
| 2,3,4,6-Tetrachlorophenol | ND     | 0.25   | 1  | 07/22/2025 19:42 |

| Surrogates           | REC (%) | Limits | DE | Date Analyzed    |
|----------------------|---------|--------|----|------------------|
| 2-Fluorophenol       | 76      | 60-130 | 1  | 07/22/2025 19:42 |
| Phenol-d5            | 68      | 60-130 | 1  | 07/22/2025 19:42 |
| Nitrobenzene-d5      | 74      | 60-130 | 1  | 07/22/2025 19:42 |
| 2-Fluorobiphenyl     | 72      | 60-130 | 1  | 07/22/2025 19:42 |
| 2,4,6-Tribromophenol | 67      | 50-130 | 1  | 07/22/2025 19:42 |
| 4-Terphenyl-d14      | 71      | 50-130 | 1  | 07/22/2025 19:42 |

**Analyst(s):** LAT

**Analytical Comments:** h5



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID                     | Lab ID       | Matrix | Date Collected   |                  | Instrument      | Batch ID |
|-------------------------------|--------------|--------|------------------|------------------|-----------------|----------|
| SB-04-10                      | 2507B37-020A | Soil   | 07/16/2025 09:12 |                  | GC48 07232511.D | 321880   |
| Analytes                      | Result       | RL     | DE               | Date Analyzed    |                 |          |
| Acenaphthene                  | ND           | 0.0013 | 1                | 07/23/2025 14:24 |                 |          |
| Acenaphthylene                | ND           | 0.0013 | 1                | 07/23/2025 14:24 |                 |          |
| Acetochlor                    | ND           | 0.25   | 1                | 07/23/2025 14:24 |                 |          |
| Anthracene                    | ND           | 0.0013 | 1                | 07/23/2025 14:24 |                 |          |
| Benzidine                     | ND           | 1.2    | 1                | 07/23/2025 14:24 |                 |          |
| Benzo (a) anthracene          | ND           | 0.012  | 1                | 07/23/2025 14:24 |                 |          |
| Benzo (a) pyrene              | ND           | 0.0013 | 1                | 07/23/2025 14:24 |                 |          |
| Benzo (b) fluoranthene        | ND           | 0.0025 | 1                | 07/23/2025 14:24 |                 |          |
| Benzo (g,h,i) perylene        | ND           | 0.0025 | 1                | 07/23/2025 14:24 |                 |          |
| Benzo (k) fluoranthene        | ND           | 0.0025 | 1                | 07/23/2025 14:24 |                 |          |
| Benzoic Acid                  | ND           | 1.2    | 1                | 07/23/2025 14:24 |                 |          |
| Benzyl Alcohol                | ND           | 1.2    | 1                | 07/23/2025 14:24 |                 |          |
| 1,1-Biphenyl                  | ND           | 0.0050 | 1                | 07/23/2025 14:24 |                 |          |
| Bis (2-chloroethoxy) Methane  | ND           | 0.25   | 1                | 07/23/2025 14:24 |                 |          |
| Bis (2-chloroethyl) Ether     | ND           | 0.0013 | 1                | 07/23/2025 14:24 |                 |          |
| Bis (2-chloroisopropyl) Ether | ND           | 0.0025 | 1                | 07/23/2025 14:24 |                 |          |
| Bis (2-ethylhexyl) Adipate    | ND           | 0.25   | 1                | 07/23/2025 14:24 |                 |          |
| Bis (2-ethylhexyl) Phthalate  | ND           | 0.062  | 1                | 07/23/2025 14:24 |                 |          |
| 4-Bromophenyl Phenyl Ether    | ND           | 0.25   | 1                | 07/23/2025 14:24 |                 |          |
| Butylbenzyl Phthalate         | ND           | 0.062  | 1                | 07/23/2025 14:24 |                 |          |
| 4-Chloroaniline               | ND           | 0.0013 | 1                | 07/23/2025 14:24 |                 |          |
| 4-Chloro-3-methylphenol       | ND           | 0.25   | 1                | 07/23/2025 14:24 |                 |          |
| 2-Chloronaphthalene           | ND           | 0.25   | 1                | 07/23/2025 14:24 |                 |          |
| 2-Chlorophenol                | ND           | 0.012  | 1                | 07/23/2025 14:24 |                 |          |
| 4-Chlorophenyl Phenyl Ether   | ND           | 0.25   | 1                | 07/23/2025 14:24 |                 |          |
| Chrysene                      | ND           | 0.0013 | 1                | 07/23/2025 14:24 |                 |          |
| Dibenzo (a,h) anthracene      | ND           | 0.0025 | 1                | 07/23/2025 14:24 |                 |          |
| Dibenzofuran                  | ND           | 0.0013 | 1                | 07/23/2025 14:24 |                 |          |
| Di-n-butyl Phthalate          | ND           | 0.062  | 1                | 07/23/2025 14:24 |                 |          |
| 1,2-Dichlorobenzene           | ND           | 0.25   | 1                | 07/23/2025 14:24 |                 |          |
| 1,3-Dichlorobenzene           | ND           | 0.25   | 1                | 07/23/2025 14:24 |                 |          |
| 1,4-Dichlorobenzene           | ND           | 0.25   | 1                | 07/23/2025 14:24 |                 |          |
| 3,3-Dichlorobenzidine         | ND           | 0.0013 | 1                | 07/23/2025 14:24 |                 |          |
| 2,4-Dichlorophenol            | ND           | 0.0025 | 1                | 07/23/2025 14:24 |                 |          |
| 2,6-Dichlorophenol            | ND           | 0.012  | 1                | 07/23/2025 14:24 |                 |          |
| Diethyl Phthalate             | ND           | 0.012  | 1                | 07/23/2025 14:24 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID                       | Lab ID       | Matrix | Date Collected   |                  | Instrument      | Batch ID |
|---------------------------------|--------------|--------|------------------|------------------|-----------------|----------|
| SB-04-10                        | 2507B37-020A | Soil   | 07/16/2025 09:12 |                  | GC48 07232511.D | 321880   |
| Analytes                        | Result       | RL     | DE               | Date Analyzed    |                 |          |
| 2,4-Dimethylphenol              | ND           | 0.25   | 1                | 07/23/2025 14:24 |                 |          |
| Dimethyl Phthalate              | ND           | 0.0025 | 1                | 07/23/2025 14:24 |                 |          |
| 4,6-Dinitro-2-methylphenol      | ND           | 1.2    | 1                | 07/23/2025 14:24 |                 |          |
| 2,4-Dinitrophenol               | ND           | 0.25   | 1                | 07/23/2025 14:24 |                 |          |
| 2,4-Dinitrotoluene              | ND           | 0.012  | 1                | 07/23/2025 14:24 |                 |          |
| 2,6-Dinitrotoluene              | ND           | 0.012  | 1                | 07/23/2025 14:24 |                 |          |
| Di-n-octyl Phthalate            | ND           | 0.62   | 1                | 07/23/2025 14:24 |                 |          |
| 1,2-Diphenylhydrazine           | ND           | 0.25   | 1                | 07/23/2025 14:24 |                 |          |
| Fluoranthene                    | ND           | 0.0025 | 1                | 07/23/2025 14:24 |                 |          |
| Fluorene                        | ND           | 0.0025 | 1                | 07/23/2025 14:24 |                 |          |
| Hexachlorobenzene               | ND           | 0.0013 | 1                | 07/23/2025 14:24 |                 |          |
| Hexachlorobutadiene             | ND           | 0.0013 | 1                | 07/23/2025 14:24 |                 |          |
| Hexachlorocyclopentadiene       | ND           | 1.2    | 1                | 07/23/2025 14:24 |                 |          |
| Hexachloroethane                | ND           | 0.0025 | 1                | 07/23/2025 14:24 |                 |          |
| Indeno (1,2,3-cd) pyrene        | ND           | 0.0025 | 1                | 07/23/2025 14:24 |                 |          |
| Isophorone                      | ND           | 0.25   | 1                | 07/23/2025 14:24 |                 |          |
| 1-Methylnaphthalene             | ND           | 0.0013 | 1                | 07/23/2025 14:24 |                 |          |
| 2-Methylnaphthalene             | ND           | 0.0013 | 1                | 07/23/2025 14:24 |                 |          |
| 2-Methylphenol (o-Cresol)       | ND           | 0.25   | 1                | 07/23/2025 14:24 |                 |          |
| 3 & 4-Methylphenol (m,p-Cresol) | ND           | 0.25   | 1                | 07/23/2025 14:24 |                 |          |
| Naphthalene                     | ND           | 0.0025 | 1                | 07/23/2025 14:24 |                 |          |
| 2-Nitroaniline                  | ND           | 1.2    | 1                | 07/23/2025 14:24 |                 |          |
| 3-Nitroaniline                  | ND           | 1.2    | 1                | 07/23/2025 14:24 |                 |          |
| 4-Nitroaniline                  | ND           | 1.2    | 1                | 07/23/2025 14:24 |                 |          |
| Nitrobenzene                    | ND           | 0.25   | 1                | 07/23/2025 14:24 |                 |          |
| 2-Nitrophenol                   | ND           | 1.2    | 1                | 07/23/2025 14:24 |                 |          |
| 4-Nitrophenol                   | ND           | 1.2    | 1                | 07/23/2025 14:24 |                 |          |
| N-Nitrosodiphenylamine          | ND           | 0.25   | 1                | 07/23/2025 14:24 |                 |          |
| N-Nitrosodi-n-propylamine       | ND           | 0.25   | 1                | 07/23/2025 14:24 |                 |          |
| Pentachlorophenol               | ND           | 0.062  | 1                | 07/23/2025 14:24 |                 |          |
| Phenanthrene                    | ND           | 0.0013 | 1                | 07/23/2025 14:24 |                 |          |
| Phenol                          | ND           | 0.010  | 1                | 07/23/2025 14:24 |                 |          |
| Pyrene                          | ND           | 0.0013 | 1                | 07/23/2025 14:24 |                 |          |
| Pyridine                        | ND           | 0.25   | 1                | 07/23/2025 14:24 |                 |          |
| 1,2,4-Trichlorobenzene          | ND           | 0.25   | 1                | 07/23/2025 14:24 |                 |          |
| 2,4,5-Trichlorophenol           | ND           | 0.0025 | 1                | 07/23/2025 14:24 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-04-10  | 2507B37-020A | Soil   | 07/16/2025 09:12 | GC48 07232511.D | 321880   |

| Analytes                  | Result | RL     | DE | Date Analyzed    |
|---------------------------|--------|--------|----|------------------|
| 2,4,6-Trichlorophenol     | ND     | 0.0025 | 1  | 07/23/2025 14:24 |
| N-Nitrosodimethylamine    | ND     | 0.25   | 1  | 07/23/2025 14:24 |
| 2,3,4,6-Tetrachlorophenol | ND     | 0.25   | 1  | 07/23/2025 14:24 |

| Surrogates           | REC (%) | Limits | DE | Date Analyzed    |
|----------------------|---------|--------|----|------------------|
| 2-Fluorophenol       | 71      | 60-130 | 1  | 07/23/2025 14:24 |
| Phenol-d5            | 66      | 60-130 | 1  | 07/23/2025 14:24 |
| Nitrobenzene-d5      | 69      | 60-130 | 1  | 07/23/2025 14:24 |
| 2-Fluorobiphenyl     | 68      | 60-130 | 1  | 07/23/2025 14:24 |
| 2,4,6-Tribromophenol | 68      | 50-130 | 1  | 07/23/2025 14:24 |
| 4-Terphenyl-d14      | 71      | 50-130 | 1  | 07/23/2025 14:24 |

**Analyst(s):** SPA

**Analytical Comments:** h5



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID                     | Lab ID       | Matrix | Date Collected   |                  | Instrument      | Batch ID |
|-------------------------------|--------------|--------|------------------|------------------|-----------------|----------|
| SB-08-3                       | 2507B37-021A | Soil   | 07/16/2025 11:38 |                  | GC21 07222529.D | 321880   |
| Analytes                      | Result       | RL     | DE               | Date Analyzed    |                 |          |
| Acenaphthene                  | ND           | 0.0013 | 1                | 07/22/2025 22:00 |                 |          |
| Acenaphthylene                | ND           | 0.0013 | 1                | 07/22/2025 22:00 |                 |          |
| Acetochlor                    | ND           | 0.25   | 1                | 07/22/2025 22:00 |                 |          |
| Anthracene                    | ND           | 0.0013 | 1                | 07/22/2025 22:00 |                 |          |
| Benzidine                     | ND           | 1.2    | 1                | 07/22/2025 22:00 |                 |          |
| Benzo (a) anthracene          | ND           | 0.012  | 1                | 07/22/2025 22:00 |                 |          |
| Benzo (a) pyrene              | ND           | 0.0013 | 1                | 07/22/2025 22:00 |                 |          |
| Benzo (b) fluoranthene        | ND           | 0.0025 | 1                | 07/22/2025 22:00 |                 |          |
| Benzo (g,h,i) perylene        | ND           | 0.0025 | 1                | 07/22/2025 22:00 |                 |          |
| Benzo (k) fluoranthene        | ND           | 0.0025 | 1                | 07/22/2025 22:00 |                 |          |
| Benzoic Acid                  | ND           | 1.2    | 1                | 07/22/2025 22:00 |                 |          |
| Benzyl Alcohol                | ND           | 1.2    | 1                | 07/22/2025 22:00 |                 |          |
| 1,1-Biphenyl                  | ND           | 0.0050 | 1                | 07/22/2025 22:00 |                 |          |
| Bis (2-chloroethoxy) Methane  | ND           | 0.25   | 1                | 07/22/2025 22:00 |                 |          |
| Bis (2-chloroethyl) Ether     | ND           | 0.0013 | 1                | 07/22/2025 22:00 |                 |          |
| Bis (2-chloroisopropyl) Ether | ND           | 0.0025 | 1                | 07/22/2025 22:00 |                 |          |
| Bis (2-ethylhexyl) Adipate    | ND           | 0.25   | 1                | 07/22/2025 22:00 |                 |          |
| Bis (2-ethylhexyl) Phthalate  | ND           | 0.062  | 1                | 07/22/2025 22:00 |                 |          |
| 4-Bromophenyl Phenyl Ether    | ND           | 0.25   | 1                | 07/22/2025 22:00 |                 |          |
| Butylbenzyl Phthalate         | ND           | 0.062  | 1                | 07/22/2025 22:00 |                 |          |
| 4-Chloroaniline               | ND           | 0.0013 | 1                | 07/22/2025 22:00 |                 |          |
| 4-Chloro-3-methylphenol       | ND           | 0.25   | 1                | 07/22/2025 22:00 |                 |          |
| 2-Chloronaphthalene           | ND           | 0.25   | 1                | 07/22/2025 22:00 |                 |          |
| 2-Chlorophenol                | ND           | 0.012  | 1                | 07/22/2025 22:00 |                 |          |
| 4-Chlorophenyl Phenyl Ether   | ND           | 0.25   | 1                | 07/22/2025 22:00 |                 |          |
| Chrysene                      | ND           | 0.0013 | 1                | 07/22/2025 22:00 |                 |          |
| Dibenzo (a,h) anthracene      | ND           | 0.0025 | 1                | 07/22/2025 22:00 |                 |          |
| Dibenzofuran                  | ND           | 0.0013 | 1                | 07/22/2025 22:00 |                 |          |
| Di-n-butyl Phthalate          | ND           | 0.062  | 1                | 07/22/2025 22:00 |                 |          |
| 1,2-Dichlorobenzene           | ND           | 0.25   | 1                | 07/22/2025 22:00 |                 |          |
| 1,3-Dichlorobenzene           | ND           | 0.25   | 1                | 07/22/2025 22:00 |                 |          |
| 1,4-Dichlorobenzene           | ND           | 0.25   | 1                | 07/22/2025 22:00 |                 |          |
| 3,3-Dichlorobenzidine         | ND           | 0.0013 | 1                | 07/22/2025 22:00 |                 |          |
| 2,4-Dichlorophenol            | ND           | 0.0025 | 1                | 07/22/2025 22:00 |                 |          |
| 2,6-Dichlorophenol            | ND           | 0.012  | 1                | 07/22/2025 22:00 |                 |          |
| Diethyl Phthalate             | ND           | 0.012  | 1                | 07/22/2025 22:00 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID                       | Lab ID       | Matrix | Date Collected   |                  | Instrument      | Batch ID |
|---------------------------------|--------------|--------|------------------|------------------|-----------------|----------|
| SB-08-3                         | 2507B37-021A | Soil   | 07/16/2025 11:38 |                  | GC21 07222529.D | 321880   |
| Analytes                        | Result       | RL     | DE               | Date Analyzed    |                 |          |
| 2,4-Dimethylphenol              | ND           | 0.25   | 1                | 07/22/2025 22:00 |                 |          |
| Dimethyl Phthalate              | ND           | 0.0025 | 1                | 07/22/2025 22:00 |                 |          |
| 4,6-Dinitro-2-methylphenol      | ND           | 1.2    | 1                | 07/22/2025 22:00 |                 |          |
| 2,4-Dinitrophenol               | ND           | 0.25   | 1                | 07/22/2025 22:00 |                 |          |
| 2,4-Dinitrotoluene              | ND           | 0.012  | 1                | 07/22/2025 22:00 |                 |          |
| 2,6-Dinitrotoluene              | ND           | 0.012  | 1                | 07/22/2025 22:00 |                 |          |
| Di-n-octyl Phthalate            | ND           | 0.62   | 1                | 07/22/2025 22:00 |                 |          |
| 1,2-Diphenylhydrazine           | ND           | 0.25   | 1                | 07/22/2025 22:00 |                 |          |
| Fluoranthene                    | ND           | 0.0025 | 1                | 07/22/2025 22:00 |                 |          |
| Fluorene                        | ND           | 0.0025 | 1                | 07/22/2025 22:00 |                 |          |
| Hexachlorobenzene               | ND           | 0.0013 | 1                | 07/22/2025 22:00 |                 |          |
| Hexachlorobutadiene             | ND           | 0.0013 | 1                | 07/22/2025 22:00 |                 |          |
| Hexachlorocyclopentadiene       | ND           | 1.2    | 1                | 07/22/2025 22:00 |                 |          |
| Hexachloroethane                | ND           | 0.0025 | 1                | 07/22/2025 22:00 |                 |          |
| Indeno (1,2,3-cd) pyrene        | ND           | 0.0025 | 1                | 07/22/2025 22:00 |                 |          |
| Isophorone                      | ND           | 0.25   | 1                | 07/22/2025 22:00 |                 |          |
| 1-Methylnaphthalene             | ND           | 0.0013 | 1                | 07/22/2025 22:00 |                 |          |
| 2-Methylnaphthalene             | ND           | 0.0013 | 1                | 07/22/2025 22:00 |                 |          |
| 2-Methylphenol (o-Cresol)       | ND           | 0.25   | 1                | 07/22/2025 22:00 |                 |          |
| 3 & 4-Methylphenol (m,p-Cresol) | ND           | 0.25   | 1                | 07/22/2025 22:00 |                 |          |
| Naphthalene                     | ND           | 0.0025 | 1                | 07/22/2025 22:00 |                 |          |
| 2-Nitroaniline                  | ND           | 1.2    | 1                | 07/22/2025 22:00 |                 |          |
| 3-Nitroaniline                  | ND           | 1.2    | 1                | 07/22/2025 22:00 |                 |          |
| 4-Nitroaniline                  | ND           | 1.2    | 1                | 07/22/2025 22:00 |                 |          |
| Nitrobenzene                    | ND           | 0.25   | 1                | 07/22/2025 22:00 |                 |          |
| 2-Nitrophenol                   | ND           | 1.2    | 1                | 07/22/2025 22:00 |                 |          |
| 4-Nitrophenol                   | ND           | 1.2    | 1                | 07/22/2025 22:00 |                 |          |
| N-Nitrosodiphenylamine          | ND           | 0.25   | 1                | 07/22/2025 22:00 |                 |          |
| N-Nitrosodi-n-propylamine       | ND           | 0.25   | 1                | 07/22/2025 22:00 |                 |          |
| Pentachlorophenol               | ND           | 0.062  | 1                | 07/22/2025 22:00 |                 |          |
| Phenanthrene                    | ND           | 0.0013 | 1                | 07/22/2025 22:00 |                 |          |
| Phenol                          | ND           | 0.010  | 1                | 07/22/2025 22:00 |                 |          |
| Pyrene                          | ND           | 0.0013 | 1                | 07/22/2025 22:00 |                 |          |
| Pyridine                        | ND           | 0.25   | 1                | 07/22/2025 22:00 |                 |          |
| 1,2,4-Trichlorobenzene          | ND           | 0.25   | 1                | 07/22/2025 22:00 |                 |          |
| 2,4,5-Trichlorophenol           | ND           | 0.0025 | 1                | 07/22/2025 22:00 |                 |          |

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## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025-07/22/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg

### Semi-Volatile Organics (Low Level) with GPC Cleanup

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument      | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| SB-08-3   | 2507B37-021A | Soil   | 07/16/2025 11:38 | GC21 07222529.D | 321880   |

| Analytes                  | Result | RL     | DE | Date Analyzed    |
|---------------------------|--------|--------|----|------------------|
| 2,4,6-Trichlorophenol     | ND     | 0.0025 | 1  | 07/22/2025 22:00 |
| N-Nitrosodimethylamine    | ND     | 0.25   | 1  | 07/22/2025 22:00 |
| 2,3,4,6-Tetrachlorophenol | ND     | 0.25   | 1  | 07/22/2025 22:00 |

| Surrogates           | REC (%) | Limits | DE | Date Analyzed    |
|----------------------|---------|--------|----|------------------|
| 2-Fluorophenol       | 78      | 60-130 | 1  | 07/22/2025 22:00 |
| Phenol-d5            | 79      | 60-130 | 1  | 07/22/2025 22:00 |
| Nitrobenzene-d5      | 94      | 60-130 | 1  | 07/22/2025 22:00 |
| 2-Fluorobiphenyl     | 78      | 60-130 | 1  | 07/22/2025 22:00 |
| 2,4,6-Tribromophenol | 62      | 50-130 | 1  | 07/22/2025 22:00 |
| 4-Terphenyl-d14      | 72      | 50-130 | 1  | 07/22/2025 22:00 |

**Analyst(s):** LAT

**Analytical Comments:** h5



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3050 B  
**Analytical Method:** SW6020  
**Unit:** mg/Kg

### Metals

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument        | Batch ID |
|-----------|--------------|--------|------------------|-------------------|----------|
| SB-01-1   | 2507B37-001A | Soil   | 07/15/2025 12:11 | ICP-MS5 204SMPL.d | 321711   |

| Analytes   | Result | RL   | DE | Date Analyzed    |
|------------|--------|------|----|------------------|
| Antimony   | 1.6    | 0.50 | 1  | 07/22/2025 16:11 |
| Arsenic    | 16     | 0.50 | 1  | 07/22/2025 16:11 |
| Barium     | 390    | 5.0  | 1  | 07/22/2025 16:11 |
| Beryllium  | 1.0    | 0.50 | 1  | 07/22/2025 16:11 |
| Cadmium    | ND     | 0.50 | 1  | 07/22/2025 16:11 |
| Chromium   | 130    | 0.50 | 1  | 07/22/2025 16:11 |
| Cobalt     | 23     | 0.50 | 1  | 07/22/2025 16:11 |
| Copper     | 62     | 0.50 | 1  | 07/22/2025 16:11 |
| Lead       | 28     | 0.50 | 1  | 07/22/2025 16:11 |
| Molybdenum | 1.0    | 0.50 | 1  | 07/22/2025 16:11 |
| Nickel     | 190    | 0.50 | 1  | 07/22/2025 16:11 |
| Selenium   | ND     | 0.50 | 1  | 07/22/2025 16:11 |
| Silver     | ND     | 0.50 | 1  | 07/22/2025 16:11 |
| Thallium   | ND     | 0.50 | 1  | 07/22/2025 16:11 |
| Vanadium   | 89     | 0.50 | 1  | 07/22/2025 16:11 |
| Zinc       | 120    | 5.0  | 1  | 07/22/2025 16:11 |

| Surrogates | REC (%) | Limits | DE | Date Analyzed    |
|------------|---------|--------|----|------------------|
| Terbium    | 110     | 70-130 | 1  | 07/22/2025 16:11 |

**Analyst(s):** MIG



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3050 B  
**Analytical Method:** SW6020  
**Unit:** mg/Kg

### Metals

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument        | Batch ID |
|-----------|--------------|--------|------------------|-------------------|----------|
| SB-01-9.5 | 2507B37-002A | Soil   | 07/15/2025 12:42 | ICP-MS5 205SMPL.d | 321711   |

| Analytes   | Result | RL   | DE | Date Analyzed    |
|------------|--------|------|----|------------------|
| Antimony   | 1.1    | 0.50 | 1  | 07/22/2025 16:14 |
| Arsenic    | 17     | 0.50 | 1  | 07/22/2025 16:14 |
| Barium     | 210    | 5.0  | 1  | 07/22/2025 16:14 |
| Beryllium  | 0.76   | 0.50 | 1  | 07/22/2025 16:14 |
| Cadmium    | ND     | 0.50 | 1  | 07/22/2025 16:14 |
| Chromium   | 97     | 0.50 | 1  | 07/22/2025 16:14 |
| Cobalt     | 18     | 0.50 | 1  | 07/22/2025 16:14 |
| Copper     | 44     | 0.50 | 1  | 07/22/2025 16:14 |
| Lead       | 15     | 0.50 | 1  | 07/22/2025 16:14 |
| Molybdenum | 1.1    | 0.50 | 1  | 07/22/2025 16:14 |
| Nickel     | 140    | 0.50 | 1  | 07/22/2025 16:14 |
| Selenium   | ND     | 0.50 | 1  | 07/22/2025 16:14 |
| Silver     | ND     | 0.50 | 1  | 07/22/2025 16:14 |
| Thallium   | ND     | 0.50 | 1  | 07/22/2025 16:14 |
| Vanadium   | 80     | 0.50 | 1  | 07/22/2025 16:14 |
| Zinc       | 83     | 5.0  | 1  | 07/22/2025 16:14 |

| Surrogates | REC (%) | Limits | DE | Date Analyzed    |
|------------|---------|--------|----|------------------|
| Terbium    | 112     | 70-130 | 1  | 07/22/2025 16:14 |

Analyst(s): MIG



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3050 B  
**Analytical Method:** SW6020  
**Unit:** mg/Kg

### Metals

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument        | Batch ID |
|-----------|--------------|--------|------------------|-------------------|----------|
| SB-02-1   | 2507B37-003A | Soil   | 07/15/2025 09:29 | ICP-MS5 208SMPL.d | 321711   |

| Analytes   | Result | RL   | DE | Date Analyzed    |
|------------|--------|------|----|------------------|
| Antimony   | 0.90   | 0.50 | 1  | 07/22/2025 16:25 |
| Arsenic    | 11     | 0.50 | 1  | 07/22/2025 16:25 |
| Barium     | 490    | 5.0  | 1  | 07/22/2025 16:25 |
| Beryllium  | 1.2    | 0.50 | 1  | 07/22/2025 16:25 |
| Cadmium    | ND     | 0.50 | 1  | 07/22/2025 16:25 |
| Chromium   | 130    | 0.50 | 1  | 07/22/2025 16:25 |
| Cobalt     | 25     | 0.50 | 1  | 07/22/2025 16:25 |
| Copper     | 62     | 0.50 | 1  | 07/22/2025 16:25 |
| Lead       | 17     | 0.50 | 1  | 07/22/2025 16:25 |
| Molybdenum | 0.79   | 0.50 | 1  | 07/22/2025 16:25 |
| Nickel     | 170    | 0.50 | 1  | 07/22/2025 16:25 |
| Selenium   | ND     | 0.50 | 1  | 07/22/2025 16:25 |
| Silver     | ND     | 0.50 | 1  | 07/22/2025 16:25 |
| Thallium   | ND     | 0.50 | 1  | 07/22/2025 16:25 |
| Vanadium   | 100    | 0.50 | 1  | 07/22/2025 16:25 |
| Zinc       | 130    | 5.0  | 1  | 07/22/2025 16:25 |

| Surrogates | REC (%) | Limits | DE | Date Analyzed    |
|------------|---------|--------|----|------------------|
| Terbium    | 112     | 70-130 | 1  | 07/22/2025 16:25 |

Analyst(s): MIG





## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3050 B  
**Analytical Method:** SW6020  
**Unit:** mg/Kg

### Metals

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument        | Batch ID |
|-----------|--------------|--------|------------------|-------------------|----------|
| SB-02-10  | 2507B37-004A | Soil   | 07/15/2025 09:59 | ICP-MS5 209SMPL.d | 321711   |

| Analytes   | Result | RL   | DE | Date Analyzed    |
|------------|--------|------|----|------------------|
| Antimony   | ND     | 0.50 | 1  | 07/22/2025 16:29 |
| Arsenic    | 4.0    | 0.50 | 1  | 07/22/2025 16:29 |
| Barium     | 76     | 5.0  | 1  | 07/22/2025 16:29 |
| Beryllium  | ND     | 0.50 | 1  | 07/22/2025 16:29 |
| Cadmium    | ND     | 0.50 | 1  | 07/22/2025 16:29 |
| Chromium   | 60     | 0.50 | 1  | 07/22/2025 16:29 |
| Cobalt     | 12     | 0.50 | 1  | 07/22/2025 16:29 |
| Copper     | 20     | 0.50 | 1  | 07/22/2025 16:29 |
| Lead       | 3.8    | 0.50 | 1  | 07/22/2025 16:29 |
| Molybdenum | 0.98   | 0.50 | 1  | 07/22/2025 16:29 |
| Nickel     | 66     | 0.50 | 1  | 07/22/2025 16:29 |
| Selenium   | ND     | 0.50 | 1  | 07/22/2025 16:29 |
| Silver     | ND     | 0.50 | 1  | 07/22/2025 16:29 |
| Thallium   | ND     | 0.50 | 1  | 07/22/2025 16:29 |
| Vanadium   | 54     | 0.50 | 1  | 07/22/2025 16:29 |
| Zinc       | 33     | 5.0  | 1  | 07/22/2025 16:29 |

| Surrogates | REC (%) | Limits | DE | Date Analyzed    |
|------------|---------|--------|----|------------------|
| Terbium    | 109     | 70-130 | 1  | 07/22/2025 16:29 |

Analyst(s): MIG



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3050 B  
**Analytical Method:** SW6020  
**Unit:** mg/Kg

### Metals

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument        | Batch ID |
|-----------|--------------|--------|------------------|-------------------|----------|
| SB-03-1   | 2507B37-005A | Soil   | 07/15/2025 15:09 | ICP-MS5 210SMPL.d | 321711   |

| Analytes   | Result | RL   | DE | Date Analyzed    |
|------------|--------|------|----|------------------|
| Antimony   | 0.57   | 0.50 | 1  | 07/22/2025 16:33 |
| Arsenic    | 6.5    | 0.50 | 1  | 07/22/2025 16:33 |
| Barium     | 330    | 5.0  | 1  | 07/22/2025 16:33 |
| Beryllium  | 0.85   | 0.50 | 1  | 07/22/2025 16:33 |
| Cadmium    | ND     | 0.50 | 1  | 07/22/2025 16:33 |
| Chromium   | 93     | 0.50 | 1  | 07/22/2025 16:33 |
| Cobalt     | 18     | 0.50 | 1  | 07/22/2025 16:33 |
| Copper     | 41     | 0.50 | 1  | 07/22/2025 16:33 |
| Lead       | 11     | 0.50 | 1  | 07/22/2025 16:33 |
| Molybdenum | 0.76   | 0.50 | 1  | 07/22/2025 16:33 |
| Nickel     | 120    | 0.50 | 1  | 07/22/2025 16:33 |
| Selenium   | ND     | 0.50 | 1  | 07/22/2025 16:33 |
| Silver     | ND     | 0.50 | 1  | 07/22/2025 16:33 |
| Thallium   | ND     | 0.50 | 1  | 07/22/2025 16:33 |
| Vanadium   | 74     | 0.50 | 1  | 07/22/2025 16:33 |
| Zinc       | 85     | 5.0  | 1  | 07/22/2025 16:33 |

| Surrogates | REC (%) | Limits | DE | Date Analyzed    |
|------------|---------|--------|----|------------------|
| Terbium    | 116     | 70-130 | 1  | 07/22/2025 16:33 |

Analyst(s): MIG



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3050 B  
**Analytical Method:** SW6020  
**Unit:** mg/Kg

### Metals

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument        | Batch ID |
|-----------|--------------|--------|------------------|-------------------|----------|
| SB-03-10  | 2507B37-006A | Soil   | 07/15/2025 15:09 | ICP-MS5 211SMPL.d | 321711   |

| Analytes   | Result | RL   | DE | Date Analyzed    |
|------------|--------|------|----|------------------|
| Antimony   | 0.66   | 0.50 | 1  | 07/22/2025 16:36 |
| Arsenic    | 4.6    | 0.50 | 1  | 07/22/2025 16:36 |
| Barium     | 81     | 5.0  | 1  | 07/22/2025 16:36 |
| Beryllium  | 0.71   | 0.50 | 1  | 07/22/2025 16:36 |
| Cadmium    | ND     | 0.50 | 1  | 07/22/2025 16:36 |
| Chromium   | 53     | 0.50 | 1  | 07/22/2025 16:36 |
| Cobalt     | 11     | 0.50 | 1  | 07/22/2025 16:36 |
| Copper     | 27     | 0.50 | 1  | 07/22/2025 16:36 |
| Lead       | 6.3    | 0.50 | 1  | 07/22/2025 16:36 |
| Molybdenum | 0.75   | 0.50 | 1  | 07/22/2025 16:36 |
| Nickel     | 67     | 0.50 | 1  | 07/22/2025 16:36 |
| Selenium   | ND     | 0.50 | 1  | 07/22/2025 16:36 |
| Silver     | ND     | 0.50 | 1  | 07/22/2025 16:36 |
| Thallium   | ND     | 0.50 | 1  | 07/22/2025 16:36 |
| Vanadium   | 58     | 0.50 | 1  | 07/22/2025 16:36 |
| Zinc       | 49     | 5.0  | 1  | 07/22/2025 16:36 |

| Surrogates | REC (%) | Limits | DE | Date Analyzed    |
|------------|---------|--------|----|------------------|
| Terbium    | 113     | 70-130 | 1  | 07/22/2025 16:36 |

Analyst(s): MIG



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3050 B  
**Analytical Method:** SW6020  
**Unit:** mg/Kg

### Metals

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument        | Batch ID |
|-----------|--------------|--------|------------------|-------------------|----------|
| SB-04-1   | 2507B37-007A | Soil   | 07/16/2025 10:40 | ICP-MS5 212SMPL.d | 321711   |

| Analytes   | Result | RL   | DE | Date Analyzed    |
|------------|--------|------|----|------------------|
| Antimony   | 1.4    | 0.50 | 1  | 07/22/2025 16:40 |
| Arsenic    | 11     | 0.50 | 1  | 07/22/2025 16:40 |
| Barium     | 130    | 5.0  | 1  | 07/22/2025 16:40 |
| Beryllium  | ND     | 0.50 | 1  | 07/22/2025 16:40 |
| Cadmium    | ND     | 0.50 | 1  | 07/22/2025 16:40 |
| Chromium   | 110    | 0.50 | 1  | 07/22/2025 16:40 |
| Cobalt     | 15     | 0.50 | 1  | 07/22/2025 16:40 |
| Copper     | 23     | 0.50 | 1  | 07/22/2025 16:40 |
| Lead       | 15     | 0.50 | 1  | 07/22/2025 16:40 |
| Molybdenum | 0.89   | 0.50 | 1  | 07/22/2025 16:40 |
| Nickel     | 180    | 0.50 | 1  | 07/22/2025 16:40 |
| Selenium   | ND     | 0.50 | 1  | 07/22/2025 16:40 |
| Silver     | ND     | 0.50 | 1  | 07/22/2025 16:40 |
| Thallium   | ND     | 0.50 | 1  | 07/22/2025 16:40 |
| Vanadium   | 48     | 0.50 | 1  | 07/22/2025 16:40 |
| Zinc       | 51     | 5.0  | 1  | 07/22/2025 16:40 |

| Surrogates | REC (%) | Limits | DE | Date Analyzed    |
|------------|---------|--------|----|------------------|
| Terbium    | 109     | 70-130 | 1  | 07/22/2025 16:40 |

Analyst(s): MIG



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3050 B  
**Analytical Method:** SW6020  
**Unit:** mg/Kg

### Metals

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument        | Batch ID |
|-----------|--------------|--------|------------------|-------------------|----------|
| SB-04-5   | 2507B37-008A | Soil   | 07/16/2025 10:41 | ICP-MS5 213SMPL.d | 321711   |

| Analytes   | Result | RL   | DE | Date Analyzed    |
|------------|--------|------|----|------------------|
| Antimony   | 1.8    | 0.50 | 1  | 07/22/2025 16:44 |
| Arsenic    | 8.7    | 0.50 | 1  | 07/22/2025 16:44 |
| Barium     | 150    | 5.0  | 1  | 07/22/2025 16:44 |
| Beryllium  | 0.55   | 0.50 | 1  | 07/22/2025 16:44 |
| Cadmium    | ND     | 0.50 | 1  | 07/22/2025 16:44 |
| Chromium   | 100    | 0.50 | 1  | 07/22/2025 16:44 |
| Cobalt     | 16     | 0.50 | 1  | 07/22/2025 16:44 |
| Copper     | 25     | 0.50 | 1  | 07/22/2025 16:44 |
| Lead       | 7.5    | 0.50 | 1  | 07/22/2025 16:44 |
| Molybdenum | 1.0    | 0.50 | 1  | 07/22/2025 16:44 |
| Nickel     | 160    | 0.50 | 1  | 07/22/2025 16:44 |
| Selenium   | ND     | 0.50 | 1  | 07/22/2025 16:44 |
| Silver     | ND     | 0.50 | 1  | 07/22/2025 16:44 |
| Thallium   | ND     | 0.50 | 1  | 07/22/2025 16:44 |
| Vanadium   | 53     | 0.50 | 1  | 07/22/2025 16:44 |
| Zinc       | 56     | 5.0  | 1  | 07/22/2025 16:44 |

| Surrogates | REC (%) | Limits | DE | Date Analyzed    |
|------------|---------|--------|----|------------------|
| Terbium    | 111     | 70-130 | 1  | 07/22/2025 16:44 |

Analyst(s): MIG



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3050 B  
**Analytical Method:** SW6020  
**Unit:** mg/Kg

### Metals

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument        | Batch ID |
|-----------|--------------|--------|------------------|-------------------|----------|
| SB-05-1   | 2507B37-009A | Soil   | 07/16/2025 08:12 | ICP-MS5 214SMPL.d | 321711   |

| Analytes   | Result | RL   | DE | Date Analyzed    |
|------------|--------|------|----|------------------|
| Antimony   | 2.1    | 0.50 | 1  | 07/22/2025 16:47 |
| Arsenic    | 32     | 0.50 | 1  | 07/22/2025 16:47 |
| Barium     | 210    | 5.0  | 1  | 07/22/2025 16:47 |
| Beryllium  | 0.53   | 0.50 | 1  | 07/22/2025 16:47 |
| Cadmium    | ND     | 0.50 | 1  | 07/22/2025 16:47 |
| Chromium   | 100    | 0.50 | 1  | 07/22/2025 16:47 |
| Cobalt     | 16     | 0.50 | 1  | 07/22/2025 16:47 |
| Copper     | 35     | 0.50 | 1  | 07/22/2025 16:47 |
| Lead       | 89     | 0.50 | 1  | 07/22/2025 16:47 |
| Molybdenum | 0.82   | 0.50 | 1  | 07/22/2025 16:47 |
| Nickel     | 160    | 0.50 | 1  | 07/22/2025 16:47 |
| Selenium   | ND     | 0.50 | 1  | 07/22/2025 16:47 |
| Silver     | ND     | 0.50 | 1  | 07/22/2025 16:47 |
| Thallium   | ND     | 0.50 | 1  | 07/22/2025 16:47 |
| Vanadium   | 56     | 0.50 | 1  | 07/22/2025 16:47 |
| Zinc       | 73     | 5.0  | 1  | 07/22/2025 16:47 |

| Surrogates | REC (%) | Limits | DE | Date Analyzed    |
|------------|---------|--------|----|------------------|
| Terbium    | 107     | 70-130 | 1  | 07/22/2025 16:47 |

**Analyst(s):** MIG



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3050 B  
**Analytical Method:** SW6020  
**Unit:** mg/Kg

### Metals

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument        | Batch ID |
|-----------|--------------|--------|------------------|-------------------|----------|
| SB-05-5   | 2507B37-010A | Soil   | 07/16/2025 08:25 | ICP-MS5 215SMPL.d | 321711   |

| Analytes   | Result | RL   | DE | Date Analyzed    |
|------------|--------|------|----|------------------|
| Antimony   | 1.8    | 0.50 | 1  | 07/22/2025 16:51 |
| Arsenic    | 9.0    | 0.50 | 1  | 07/22/2025 16:51 |
| Barium     | 140    | 5.0  | 1  | 07/22/2025 16:51 |
| Beryllium  | ND     | 0.50 | 1  | 07/22/2025 16:51 |
| Cadmium    | ND     | 0.50 | 1  | 07/22/2025 16:51 |
| Chromium   | 96     | 0.50 | 1  | 07/22/2025 16:51 |
| Cobalt     | 14     | 0.50 | 1  | 07/22/2025 16:51 |
| Copper     | 23     | 0.50 | 1  | 07/22/2025 16:51 |
| Lead       | 11     | 0.50 | 1  | 07/22/2025 16:51 |
| Molybdenum | 0.84   | 0.50 | 1  | 07/22/2025 16:51 |
| Nickel     | 140    | 0.50 | 1  | 07/22/2025 16:51 |
| Selenium   | ND     | 0.50 | 1  | 07/22/2025 16:51 |
| Silver     | ND     | 0.50 | 1  | 07/22/2025 16:51 |
| Thallium   | ND     | 0.50 | 1  | 07/22/2025 16:51 |
| Vanadium   | 53     | 0.50 | 1  | 07/22/2025 16:51 |
| Zinc       | 54     | 5.0  | 1  | 07/22/2025 16:51 |

| Surrogates | REC (%) | Limits | DE | Date Analyzed    |
|------------|---------|--------|----|------------------|
| Terbium    | 108     | 70-130 | 1  | 07/22/2025 16:51 |

Analyst(s): MIG



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3050 B  
**Analytical Method:** SW6020  
**Unit:** mg/Kg

### Metals

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument        | Batch ID |
|-----------|--------------|--------|------------------|-------------------|----------|
| SB-06-1.5 | 2507B37-011A | Soil   | 07/16/2025 14:00 | ICP-MS5 300SMPL.d | 321711   |

| Analytes   | Result | RL   | DE | Date Analyzed    |
|------------|--------|------|----|------------------|
| Antimony   | 1.6    | 0.50 | 1  | 07/22/2025 22:04 |
| Arsenic    | 23     | 0.50 | 1  | 07/22/2025 22:04 |
| Barium     | 370    | 5.0  | 1  | 07/22/2025 22:04 |
| Beryllium  | 0.72   | 0.50 | 1  | 07/22/2025 22:04 |
| Cadmium    | ND     | 0.50 | 1  | 07/22/2025 22:04 |
| Chromium   | 120    | 0.50 | 1  | 07/22/2025 22:04 |
| Cobalt     | 18     | 0.50 | 1  | 07/22/2025 22:04 |
| Copper     | 65     | 0.50 | 1  | 07/22/2025 22:04 |
| Lead       | 120    | 0.50 | 1  | 07/22/2025 22:04 |
| Molybdenum | 0.83   | 0.50 | 1  | 07/22/2025 22:04 |
| Nickel     | 170    | 0.50 | 1  | 07/22/2025 22:04 |
| Selenium   | ND     | 0.50 | 1  | 07/22/2025 22:04 |
| Silver     | ND     | 0.50 | 1  | 07/22/2025 22:04 |
| Thallium   | ND     | 0.50 | 1  | 07/22/2025 22:04 |
| Vanadium   | 66     | 0.50 | 1  | 07/22/2025 22:04 |
| Zinc       | 110    | 5.0  | 1  | 07/22/2025 22:04 |

| Surrogates | REC (%) | Limits | DE | Date Analyzed    |
|------------|---------|--------|----|------------------|
| Terbium    | 108     | 70-130 | 1  | 07/22/2025 22:04 |

Analyst(s): AL





## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3050 B  
**Analytical Method:** SW6020  
**Unit:** mg/Kg

### Metals

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument        | Batch ID |
|-----------|--------------|--------|------------------|-------------------|----------|
| SB-06-5   | 2507B37-012A | Soil   | 07/16/2025 13:57 | ICP-MS5 301SMPL.d | 321711   |

| Analytes   | Result | RL   | DE | Date Analyzed    |
|------------|--------|------|----|------------------|
| Antimony   | ND     | 0.50 | 1  | 07/22/2025 22:07 |
| Arsenic    | 6.5    | 0.50 | 1  | 07/22/2025 22:07 |
| Barium     | 310    | 5.0  | 1  | 07/22/2025 22:07 |
| Beryllium  | 0.91   | 0.50 | 1  | 07/22/2025 22:07 |
| Cadmium    | ND     | 0.50 | 1  | 07/22/2025 22:07 |
| Chromium   | 92     | 0.50 | 1  | 07/22/2025 22:07 |
| Cobalt     | 16     | 0.50 | 1  | 07/22/2025 22:07 |
| Copper     | 37     | 0.50 | 1  | 07/22/2025 22:07 |
| Lead       | 10     | 0.50 | 1  | 07/22/2025 22:07 |
| Molybdenum | 0.86   | 0.50 | 1  | 07/22/2025 22:07 |
| Nickel     | 110    | 0.50 | 1  | 07/22/2025 22:07 |
| Selenium   | ND     | 0.50 | 1  | 07/22/2025 22:07 |
| Silver     | ND     | 0.50 | 1  | 07/22/2025 22:07 |
| Thallium   | ND     | 0.50 | 1  | 07/22/2025 22:07 |
| Vanadium   | 68     | 0.50 | 1  | 07/22/2025 22:07 |
| Zinc       | 81     | 5.0  | 1  | 07/22/2025 22:07 |

| Surrogates | REC (%) | Limits | DE |                  |
|------------|---------|--------|----|------------------|
| Terbium    | 106     | 70-130 | 1  | 07/22/2025 22:07 |

Analyst(s): AL



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3050 B  
**Analytical Method:** SW6020  
**Unit:** mg/Kg

### Metals

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument        | Batch ID |
|-----------|--------------|--------|------------------|-------------------|----------|
| SB-07-1   | 2507B37-013A | Soil   | 07/16/2025 13:25 | ICP-MS5 220SMPL.d | 321711   |

| Analytes   | Result | RL   | DE | Date Analyzed    |
|------------|--------|------|----|------------------|
| Antimony   | 1.8    | 0.50 | 1  | 07/22/2025 17:10 |
| Arsenic    | 13     | 0.50 | 1  | 07/22/2025 17:10 |
| Barium     | 310    | 5.0  | 1  | 07/22/2025 17:10 |
| Beryllium  | 0.80   | 0.50 | 1  | 07/22/2025 17:10 |
| Cadmium    | ND     | 0.50 | 1  | 07/22/2025 17:10 |
| Chromium   | 120    | 0.50 | 1  | 07/22/2025 17:10 |
| Cobalt     | 21     | 0.50 | 1  | 07/22/2025 17:10 |
| Copper     | 46     | 0.50 | 1  | 07/22/2025 17:10 |
| Lead       | 22     | 0.50 | 1  | 07/22/2025 17:10 |
| Molybdenum | 1.2    | 0.50 | 1  | 07/22/2025 17:10 |
| Nickel     | 190    | 0.50 | 1  | 07/22/2025 17:10 |
| Selenium   | ND     | 0.50 | 1  | 07/22/2025 17:10 |
| Silver     | ND     | 0.50 | 1  | 07/22/2025 17:10 |
| Thallium   | ND     | 0.50 | 1  | 07/22/2025 17:10 |
| Vanadium   | 75     | 0.50 | 1  | 07/22/2025 17:10 |
| Zinc       | 94     | 5.0  | 1  | 07/22/2025 17:10 |

| Surrogates | REC (%) | Limits | DE | Date Analyzed    |
|------------|---------|--------|----|------------------|
| Terbium    | 108     | 70-130 | 1  | 07/22/2025 17:10 |

Analyst(s): MIG



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3050 B  
**Analytical Method:** SW6020  
**Unit:** mg/Kg

### Metals

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument        | Batch ID |
|-----------|--------------|--------|------------------|-------------------|----------|
| SB-07-5   | 2507B37-014A | Soil   | 07/16/2025 13:23 | ICP-MS5 302SMPL.d | 321711   |

| Analytes   | Result | RL   | DE | Date Analyzed    |
|------------|--------|------|----|------------------|
| Antimony   | 0.71   | 0.50 | 1  | 07/22/2025 22:11 |
| Arsenic    | 9.3    | 0.50 | 1  | 07/22/2025 22:11 |
| Barium     | 380    | 5.0  | 1  | 07/22/2025 22:11 |
| Beryllium  | 0.75   | 0.50 | 1  | 07/22/2025 22:11 |
| Cadmium    | ND     | 0.50 | 1  | 07/22/2025 22:11 |
| Chromium   | 86     | 0.50 | 1  | 07/22/2025 22:11 |
| Cobalt     | 15     | 0.50 | 1  | 07/22/2025 22:11 |
| Copper     | 45     | 0.50 | 1  | 07/22/2025 22:11 |
| Lead       | 12     | 0.50 | 1  | 07/22/2025 22:11 |
| Molybdenum | 1.1    | 0.50 | 1  | 07/22/2025 22:11 |
| Nickel     | 120    | 0.50 | 1  | 07/22/2025 22:11 |
| Selenium   | ND     | 0.50 | 1  | 07/22/2025 22:11 |
| Silver     | ND     | 0.50 | 1  | 07/22/2025 22:11 |
| Thallium   | ND     | 0.50 | 1  | 07/22/2025 22:11 |
| Vanadium   | 66     | 0.50 | 1  | 07/22/2025 22:11 |
| Zinc       | 88     | 5.0  | 1  | 07/22/2025 22:11 |

| Surrogates | REC (%) | Limits | DE | Date Analyzed    |
|------------|---------|--------|----|------------------|
| Terbium    | 98      | 70-130 | 1  | 07/22/2025 22:11 |

**Analyst(s):** AL



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3050 B  
**Analytical Method:** SW6020  
**Unit:** mg/Kg

### Metals

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument        | Batch ID |
|-----------|--------------|--------|------------------|-------------------|----------|
| SB-08-1   | 2507B37-015A | Soil   | 07/16/2025 11:35 | ICP-MS4 116SMPL.d | 321711   |

| Analytes   | Result | RL   | DE | Date Analyzed    |
|------------|--------|------|----|------------------|
| Antimony   | 2.8    | 0.50 | 1  | 07/22/2025 10:56 |
| Arsenic    | 16     | 0.50 | 1  | 07/22/2025 10:56 |
| Barium     | 180    | 5.0  | 1  | 07/22/2025 10:56 |
| Beryllium  | 0.62   | 0.50 | 1  | 07/22/2025 10:56 |
| Cadmium    | ND     | 0.50 | 1  | 07/22/2025 10:56 |
| Chromium   | 120    | 0.50 | 1  | 07/22/2025 10:56 |
| Cobalt     | 18     | 0.50 | 1  | 07/22/2025 10:56 |
| Copper     | 34     | 0.50 | 1  | 07/22/2025 10:56 |
| Lead       | 43     | 0.50 | 1  | 07/22/2025 10:56 |
| Molybdenum | 1.1    | 0.50 | 1  | 07/22/2025 10:56 |
| Nickel     | 200    | 0.50 | 1  | 07/22/2025 10:56 |
| Selenium   | ND     | 0.50 | 1  | 07/22/2025 10:56 |
| Silver     | ND     | 0.50 | 1  | 07/22/2025 10:56 |
| Thallium   | ND     | 0.50 | 1  | 07/22/2025 10:56 |
| Vanadium   | 57     | 0.50 | 1  | 07/22/2025 10:56 |
| Zinc       | 68     | 5.0  | 1  | 07/22/2025 10:56 |

| Surrogates | REC (%) | Limits | DE | Date Analyzed    |
|------------|---------|--------|----|------------------|
| Terbium    | 111     | 70-130 | 1  | 07/22/2025 10:56 |

Analyst(s): WV



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3050 B  
**Analytical Method:** SW6020  
**Unit:** mg/Kg

### Metals

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument        | Batch ID |
|-----------|--------------|--------|------------------|-------------------|----------|
| SB-08-5   | 2507B37-016A | Soil   | 07/16/2025 11:32 | ICP-MS5 175SMPL.d | 321719   |

| Analytes   | Result | RL   | DE | Date Analyzed    |
|------------|--------|------|----|------------------|
| Antimony   | 0.50   | 0.50 | 1  | 07/21/2025 18:39 |
| Arsenic    | 5.1    | 0.50 | 1  | 07/21/2025 18:39 |
| Barium     | 230    | 5.0  | 1  | 07/21/2025 18:39 |
| Beryllium  | 0.71   | 0.50 | 1  | 07/21/2025 18:39 |
| Cadmium    | ND     | 0.50 | 1  | 07/21/2025 18:39 |
| Chromium   | 94     | 0.50 | 1  | 07/21/2025 18:39 |
| Cobalt     | 17     | 0.50 | 1  | 07/21/2025 18:39 |
| Copper     | 35     | 0.50 | 1  | 07/21/2025 18:39 |
| Lead       | 7.9    | 0.50 | 1  | 07/21/2025 18:39 |
| Molybdenum | 0.78   | 0.50 | 1  | 07/21/2025 18:39 |
| Nickel     | 130    | 0.50 | 1  | 07/21/2025 18:39 |
| Selenium   | ND     | 0.50 | 1  | 07/21/2025 18:39 |
| Silver     | ND     | 0.50 | 1  | 07/21/2025 18:39 |
| Thallium   | ND     | 0.50 | 1  | 07/21/2025 18:39 |
| Vanadium   | 65     | 0.50 | 1  | 07/21/2025 18:39 |
| Zinc       | 74     | 5.0  | 1  | 07/21/2025 18:39 |

| Surrogates | REC (%) | Limits | DE | Date Analyzed    |
|------------|---------|--------|----|------------------|
| Terbium    | 105     | 70-130 | 1  | 07/21/2025 18:39 |

Analyst(s): WV



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3050 B  
**Analytical Method:** SW6020  
**Unit:** mg/Kg

### Metals

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument        | Batch ID |
|-----------|--------------|--------|------------------|-------------------|----------|
| SB-09-1   | 2507B37-017A | Soil   | 07/16/2025 11:56 | ICP-MS4 117SMPL.d | 321719   |

| Analytes   | Result | RL   | DE | Date Analyzed    |
|------------|--------|------|----|------------------|
| Antimony   | 1.6    | 0.50 | 1  | 07/22/2025 11:00 |
| Arsenic    | 61     | 0.50 | 1  | 07/22/2025 11:00 |
| Barium     | 160    | 5.0  | 1  | 07/22/2025 11:00 |
| Beryllium  | 0.61   | 0.50 | 1  | 07/22/2025 11:00 |
| Cadmium    | ND     | 0.50 | 1  | 07/22/2025 11:00 |
| Chromium   | 88     | 0.50 | 1  | 07/22/2025 11:00 |
| Cobalt     | 14     | 0.50 | 1  | 07/22/2025 11:00 |
| Copper     | 56     | 0.50 | 1  | 07/22/2025 11:00 |
| Lead       | 170    | 0.50 | 1  | 07/22/2025 11:00 |
| Molybdenum | 0.93   | 0.50 | 1  | 07/22/2025 11:00 |
| Nickel     | 140    | 0.50 | 1  | 07/22/2025 11:00 |
| Selenium   | 0.65   | 0.50 | 1  | 07/22/2025 11:00 |
| Silver     | ND     | 0.50 | 1  | 07/22/2025 11:00 |
| Thallium   | ND     | 0.50 | 1  | 07/22/2025 11:00 |
| Vanadium   | 53     | 0.50 | 1  | 07/22/2025 11:00 |
| Zinc       | 80     | 5.0  | 1  | 07/22/2025 11:00 |

| Surrogates | REC (%) | Limits | DE | Date Analyzed    |
|------------|---------|--------|----|------------------|
| Terbium    | 109     | 70-130 | 1  | 07/22/2025 11:00 |

Analyst(s): WV



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3050 B  
**Analytical Method:** SW6020  
**Unit:** mg/Kg

### Metals

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument        | Batch ID |
|-----------|--------------|--------|------------------|-------------------|----------|
| SB-09-5   | 2507B37-018A | Soil   | 07/16/2025 11:53 | ICP-MS4 210SMPL.d | 321719   |

| Analytes   | Result | RL   | DE | Date Analyzed    |
|------------|--------|------|----|------------------|
| Antimony   | ND     | 0.50 | 1  | 07/22/2025 17:22 |
| Arsenic    | 5.7    | 0.50 | 1  | 07/22/2025 17:22 |
| Barium     | 300    | 5.0  | 1  | 07/22/2025 17:22 |
| Beryllium  | 0.93   | 0.50 | 1  | 07/22/2025 17:22 |
| Cadmium    | ND     | 0.50 | 1  | 07/22/2025 17:22 |
| Chromium   | 100    | 0.50 | 1  | 07/22/2025 17:22 |
| Cobalt     | 18     | 0.50 | 1  | 07/22/2025 17:22 |
| Copper     | 43     | 0.50 | 1  | 07/22/2025 17:22 |
| Lead       | 11     | 0.50 | 1  | 07/22/2025 17:22 |
| Molybdenum | 0.60   | 0.50 | 1  | 07/22/2025 17:22 |
| Nickel     | 140    | 0.50 | 1  | 07/22/2025 17:22 |
| Selenium   | ND     | 0.50 | 1  | 07/22/2025 17:22 |
| Silver     | ND     | 0.50 | 1  | 07/22/2025 17:22 |
| Thallium   | ND     | 0.50 | 1  | 07/22/2025 17:22 |
| Vanadium   | 78     | 0.50 | 1  | 07/22/2025 17:22 |
| Zinc       | 86     | 5.0  | 1  | 07/22/2025 17:22 |

| Surrogates | REC (%) | Limits | DE | Date Analyzed    |
|------------|---------|--------|----|------------------|
| Terbium    | 108     | 70-130 | 1  | 07/22/2025 17:22 |

**Analyst(s):** AL



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3050 B  
**Analytical Method:** SW6020  
**Unit:** mg/Kg

### Metals

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument        | Batch ID |
|-----------|--------------|--------|------------------|-------------------|----------|
| SB-04-8.5 | 2507B37-019A | Soil   | 07/16/2025 10:46 | ICP-MS4 119SMPL.d | 321719   |

| Analytes   | Result | RL   | DE | Date Analyzed    |
|------------|--------|------|----|------------------|
| Antimony   | ND     | 0.50 | 1  | 07/22/2025 11:08 |
| Arsenic    | 1.7    | 0.50 | 1  | 07/22/2025 11:08 |
| Barium     | 73     | 5.0  | 1  | 07/22/2025 11:08 |
| Beryllium  | ND     | 0.50 | 1  | 07/22/2025 11:08 |
| Cadmium    | ND     | 0.50 | 1  | 07/22/2025 11:08 |
| Chromium   | 52     | 0.50 | 1  | 07/22/2025 11:08 |
| Cobalt     | 9.8    | 0.50 | 1  | 07/22/2025 11:08 |
| Copper     | 18     | 0.50 | 1  | 07/22/2025 11:08 |
| Lead       | 4.2    | 0.50 | 1  | 07/22/2025 11:08 |
| Molybdenum | ND     | 0.50 | 1  | 07/22/2025 11:08 |
| Nickel     | 56     | 0.50 | 1  | 07/22/2025 11:08 |
| Selenium   | ND     | 0.50 | 1  | 07/22/2025 11:08 |
| Silver     | ND     | 0.50 | 1  | 07/22/2025 11:08 |
| Thallium   | ND     | 0.50 | 1  | 07/22/2025 11:08 |
| Vanadium   | 50     | 0.50 | 1  | 07/22/2025 11:08 |
| Zinc       | 40     | 5.0  | 1  | 07/22/2025 11:08 |

| Surrogates | REC (%) | Limits | DE | Date Analyzed    |
|------------|---------|--------|----|------------------|
| Terbium    | 107     | 70-130 | 1  | 07/22/2025 11:08 |

Analyst(s): WV





## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3050 B  
**Analytical Method:** SW6020  
**Unit:** mg/Kg

### Metals

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument        | Batch ID |
|-----------|--------------|--------|------------------|-------------------|----------|
| SB-04-10  | 2507B37-020A | Soil   | 07/16/2025 09:12 | ICP-MS4 120SMPL.d | 321719   |

| Analytes   | Result | RL   | DE | Date Analyzed    |
|------------|--------|------|----|------------------|
| Antimony   | ND     | 0.50 | 1  | 07/22/2025 11:12 |
| Arsenic    | 2.1    | 0.50 | 1  | 07/22/2025 11:12 |
| Barium     | 140    | 5.0  | 1  | 07/22/2025 11:12 |
| Beryllium  | 0.56   | 0.50 | 1  | 07/22/2025 11:12 |
| Cadmium    | ND     | 0.50 | 1  | 07/22/2025 11:12 |
| Chromium   | 85     | 0.50 | 1  | 07/22/2025 11:12 |
| Cobalt     | 16     | 0.50 | 1  | 07/22/2025 11:12 |
| Copper     | 25     | 0.50 | 1  | 07/22/2025 11:12 |
| Lead       | 6.0    | 0.50 | 1  | 07/22/2025 11:12 |
| Molybdenum | ND     | 0.50 | 1  | 07/22/2025 11:12 |
| Nickel     | 99     | 0.50 | 1  | 07/22/2025 11:12 |
| Selenium   | ND     | 0.50 | 1  | 07/22/2025 11:12 |
| Silver     | ND     | 0.50 | 1  | 07/22/2025 11:12 |
| Thallium   | ND     | 0.50 | 1  | 07/22/2025 11:12 |
| Vanadium   | 67     | 0.50 | 1  | 07/22/2025 11:12 |
| Zinc       | 54     | 5.0  | 1  | 07/22/2025 11:12 |

| Surrogates | REC (%) | Limits | DE | Date Analyzed    |
|------------|---------|--------|----|------------------|
| Terbium    | 108     | 70-130 | 1  | 07/22/2025 11:12 |

Analyst(s): WV



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW3050 B  
**Analytical Method:** SW6020  
**Unit:** mg/Kg

### Metals

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument        | Batch ID |
|-----------|--------------|--------|------------------|-------------------|----------|
| SB-08-3   | 2507B37-021A | Soil   | 07/16/2025 11:38 | ICP-MS4 121SMPL.d | 321719   |

| Analytes   | Result | RL   | DE | Date Analyzed    |
|------------|--------|------|----|------------------|
| Antimony   | ND     | 0.50 | 1  | 07/22/2025 11:16 |
| Arsenic    | 5.2    | 0.50 | 1  | 07/22/2025 11:16 |
| Barium     | 220    | 5.0  | 1  | 07/22/2025 11:16 |
| Beryllium  | 0.70   | 0.50 | 1  | 07/22/2025 11:16 |
| Cadmium    | ND     | 0.50 | 1  | 07/22/2025 11:16 |
| Chromium   | 90     | 0.50 | 1  | 07/22/2025 11:16 |
| Cobalt     | 16     | 0.50 | 1  | 07/22/2025 11:16 |
| Copper     | 33     | 0.50 | 1  | 07/22/2025 11:16 |
| Lead       | 8.1    | 0.50 | 1  | 07/22/2025 11:16 |
| Molybdenum | 0.89   | 0.50 | 1  | 07/22/2025 11:16 |
| Nickel     | 120    | 0.50 | 1  | 07/22/2025 11:16 |
| Selenium   | ND     | 0.50 | 1  | 07/22/2025 11:16 |
| Silver     | ND     | 0.50 | 1  | 07/22/2025 11:16 |
| Thallium   | ND     | 0.50 | 1  | 07/22/2025 11:16 |
| Vanadium   | 67     | 0.50 | 1  | 07/22/2025 11:16 |
| Zinc       | 72     | 5.0  | 1  | 07/22/2025 11:16 |

| Surrogates | REC (%) | Limits | DE | Date Analyzed    |
|------------|---------|--------|----|------------------|
| Terbium    | 108     | 70-130 | 1  | 07/22/2025 11:16 |

Analyst(s): WV



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW7471 B  
**Analytical Method:** SW7471 B  
**Unit:** mg/Kg

### Mercury by Cold Vapor Atomic Absorption

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| SB-01-1   | 2507B37-001A | Soil   | 07/15/2025 12:11 | AA1 _45    | 321718   |

|                 |               |           |           |                      |
|-----------------|---------------|-----------|-----------|----------------------|
| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>DE</u> | <u>Date Analyzed</u> |
| Mercury         | 5.6           | 0.85      | 50        | 07/22/2025 17:01     |

Analyst(s): MJA

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| SB-01-9.5 | 2507B37-002A | Soil   | 07/15/2025 12:42 | AA1 _46    | 321718   |

|                 |               |           |           |                      |
|-----------------|---------------|-----------|-----------|----------------------|
| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>DE</u> | <u>Date Analyzed</u> |
| Mercury         | 1.2           | 0.85      | 50        | 07/22/2025 17:04     |

Analyst(s): MJA

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| SB-02-1   | 2507B37-003A | Soil   | 07/15/2025 09:29 | AA1 _61    | 321718   |

|                 |               |           |           |                      |
|-----------------|---------------|-----------|-----------|----------------------|
| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>DE</u> | <u>Date Analyzed</u> |
| Mercury         | 0.084         | 0.017     | 1         | 07/22/2025 17:56     |

Analyst(s): MJA

(Cont.)



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW7471 B  
**Analytical Method:** SW7471 B  
**Unit:** mg/Kg

### Mercury by Cold Vapor Atomic Absorption

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| SB-02-10  | 2507B37-004A | Soil   | 07/15/2025 09:59 | AA1 _62    | 321718   |

| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>DE</u> | <u>Date Analyzed</u> |
|-----------------|---------------|-----------|-----------|----------------------|
| Mercury         | 0.059         | 0.017     | 1         | 07/22/2025 17:59     |

Analyst(s): MJA

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| SB-03-1   | 2507B37-005A | Soil   | 07/15/2025 15:09 | AA1 _49    | 321718   |

| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>DE</u> | <u>Date Analyzed</u> |
|-----------------|---------------|-----------|-----------|----------------------|
| Mercury         | 1.7           | 0.85      | 50        | 07/22/2025 17:13     |

Analyst(s): MJA

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| SB-03-10  | 2507B37-006A | Soil   | 07/15/2025 15:09 | AA1 _63    | 321718   |

| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>DE</u> | <u>Date Analyzed</u> |
|-----------------|---------------|-----------|-----------|----------------------|
| Mercury         | 0.14          | 0.017     | 1         | 07/22/2025 18:02     |

Analyst(s): MJA

(Cont.)



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW7471 B  
**Analytical Method:** SW7471 B  
**Unit:** mg/Kg

### Mercury by Cold Vapor Atomic Absorption

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| SB-04-1   | 2507B37-007A | Soil   | 07/16/2025 10:40 | AA1 _51    | 321718   |

|                 |               |           |           |                      |
|-----------------|---------------|-----------|-----------|----------------------|
| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>DE</u> | <u>Date Analyzed</u> |
| Mercury         | 12            | 0.85      | 50        | 07/22/2025 17:19     |

Analyst(s): MJA

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| SB-04-5   | 2507B37-008A | Soil   | 07/16/2025 10:41 | AA1 _52    | 321718   |

|                 |               |           |           |                      |
|-----------------|---------------|-----------|-----------|----------------------|
| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>DE</u> | <u>Date Analyzed</u> |
| Mercury         | 12            | 0.85      | 50        | 07/22/2025 17:22     |

Analyst(s): MJA

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| SB-05-1   | 2507B37-009A | Soil   | 07/16/2025 08:12 | AA1 _53    | 321718   |

|                 |               |           |           |                      |
|-----------------|---------------|-----------|-----------|----------------------|
| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>DE</u> | <u>Date Analyzed</u> |
| Mercury         | 7.7           | 0.85      | 50        | 07/22/2025 17:25     |

Analyst(s): MJA

(Cont.)



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW7471 B  
**Analytical Method:** SW7471 B  
**Unit:** mg/Kg

### Mercury by Cold Vapor Atomic Absorption

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| SB-05-5   | 2507B37-010A | Soil   | 07/16/2025 08:25 | AA1 _54    | 321718   |

|                 |               |           |           |                      |
|-----------------|---------------|-----------|-----------|----------------------|
| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>DE</u> | <u>Date Analyzed</u> |
| Mercury         | 8.8           | 0.85      | 50        | 07/22/2025 17:28     |

Analyst(s): MJA

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| SB-06-1.5 | 2507B37-011A | Soil   | 07/16/2025 14:00 | AA1 _69    | 321718   |

|                 |               |           |           |                      |
|-----------------|---------------|-----------|-----------|----------------------|
| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>DE</u> | <u>Date Analyzed</u> |
| Mercury         | 5.6           | 0.85      | 50        | 07/22/2025 18:20     |

Analyst(s): MJA

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| SB-06-5   | 2507B37-012A | Soil   | 07/16/2025 13:57 | AA1 _35    | 321718   |

|                 |               |           |           |                      |
|-----------------|---------------|-----------|-----------|----------------------|
| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>DE</u> | <u>Date Analyzed</u> |
| Mercury         | 0.29          | 0.034     | 2         | 07/24/2025 12:18     |

Analyst(s): MJA

(Cont.)



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW7471 B  
**Analytical Method:** SW7471 B  
**Unit:** mg/Kg

### Mercury by Cold Vapor Atomic Absorption

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| SB-07-1   | 2507B37-013A | Soil   | 07/16/2025 13:25 | AA1 _71    | 321718   |

|                 |               |           |           |                      |
|-----------------|---------------|-----------|-----------|----------------------|
| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>DE</u> | <u>Date Analyzed</u> |
| Mercury         | 9.6           | 0.85      | 50        | 07/22/2025 18:26     |

Analyst(s): MJA

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| SB-07-5   | 2507B37-014A | Soil   | 07/16/2025 13:23 | AA1 _36    | 321718   |

|                 |               |           |           |                      |
|-----------------|---------------|-----------|-----------|----------------------|
| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>DE</u> | <u>Date Analyzed</u> |
| Mercury         | 0.52          | 0.085     | 5         | 07/23/2025 13:20     |

Analyst(s): MJA

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| SB-08-1   | 2507B37-015A | Soil   | 07/16/2025 11:35 | AA1 _30    | 321844   |

|                 |               |           |           |                      |
|-----------------|---------------|-----------|-----------|----------------------|
| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>DE</u> | <u>Date Analyzed</u> |
| Mercury         | 6.5           | 0.85      | 50        | 07/22/2025 16:15     |

Analyst(s): MJA

(Cont.)



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW7471 B  
**Analytical Method:** SW7471 B  
**Unit:** mg/Kg

### Mercury by Cold Vapor Atomic Absorption

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| SB-08-5   | 2507B37-016A | Soil   | 07/16/2025 11:32 | AA1 _37    | 321844   |

|                 |               |           |           |                      |
|-----------------|---------------|-----------|-----------|----------------------|
| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>DE</u> | <u>Date Analyzed</u> |
| Mercury         | 0.12          | 0.017     | 1         | 07/23/2025 13:23     |

Analyst(s): MJA

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| SB-09-1   | 2507B37-017A | Soil   | 07/16/2025 11:56 | AA1 _74    | 321844   |

|                 |               |           |           |                      |
|-----------------|---------------|-----------|-----------|----------------------|
| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>DE</u> | <u>Date Analyzed</u> |
| Mercury         | 2.9           | 0.85      | 50        | 07/22/2025 18:35     |

Analyst(s): MJA

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| SB-09-5   | 2507B37-018A | Soil   | 07/16/2025 11:53 | AA1 _18    | 321718   |

|                 |               |           |           |                      |
|-----------------|---------------|-----------|-----------|----------------------|
| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>DE</u> | <u>Date Analyzed</u> |
| Mercury         | 0.098         | 0.017     | 1         | 07/22/2025 15:31     |

Analyst(s): MJA

(Cont.)





## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/21/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** SW7471 B  
**Analytical Method:** SW7471 B  
**Unit:** mg/Kg

### Mercury by Cold Vapor Atomic Absorption

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| SB-04-8.5 | 2507B37-019A | Soil   | 07/16/2025 10:46 | AA1 _38    | 321718   |

|                 |               |           |           |                      |
|-----------------|---------------|-----------|-----------|----------------------|
| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>DE</u> | <u>Date Analyzed</u> |
| Mercury         | 0.078         | 0.017     | 1         | 07/23/2025 13:26     |

Analyst(s): MJA

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| SB-04-10  | 2507B37-020A | Soil   | 07/16/2025 09:12 | AA1 _39    | 321718   |

|                 |               |           |           |                      |
|-----------------|---------------|-----------|-----------|----------------------|
| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>DE</u> | <u>Date Analyzed</u> |
| Mercury         | 0.11          | 0.017     | 1         | 07/23/2025 13:29     |

Analyst(s): MJA

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| SB-08-3   | 2507B37-021A | Soil   | 07/16/2025 11:38 | AA1 _40    | 321718   |

|                 |               |           |           |                      |
|-----------------|---------------|-----------|-----------|----------------------|
| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>DE</u> | <u>Date Analyzed</u> |
| Mercury         | 0.40          | 0.085     | 5         | 07/23/2025 13:32     |

Analyst(s): MJA



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/23/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** ASTM D2216-05  
**Analytical Method:** SW8000  
**Unit:** wet wt%

### Percent Moisture

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| SB-01-9.5 | 2507B37-002B | Soil   | 07/15/2025 12:42 | WetChem    | 322025   |

|                 |               |           |                      |
|-----------------|---------------|-----------|----------------------|
| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>Date Analyzed</u> |
| % Moisture      | 19.7          | 0.100     | 07/23/2025 12:47     |

Analyst(s): ACH

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| SB-02-10  | 2507B37-004B | Soil   | 07/15/2025 09:59 | WetChem    | 322025   |

|                 |               |           |                      |
|-----------------|---------------|-----------|----------------------|
| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>Date Analyzed</u> |
| % Moisture      | 18.3          | 0.100     | 07/23/2025 12:52     |

Analyst(s): ACH

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| SB-03-10  | 2507B37-006B | Soil   | 07/15/2025 15:09 | WetChem    | 322025   |

|                 |               |           |                      |
|-----------------|---------------|-----------|----------------------|
| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>Date Analyzed</u> |
| % Moisture      | 16.4          | 0.100     | 07/23/2025 12:57     |

Analyst(s): ACH



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/23/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** ASTM D2216-05  
**Analytical Method:** SW8000  
**Unit:** wet wt%

### Percent Moisture

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| SB-04-5   | 2507B37-008B | Soil   | 07/16/2025 10:41 | WetChem    | 322025   |

|                 |               |           |                      |
|-----------------|---------------|-----------|----------------------|
| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>Date Analyzed</u> |
| % Moisture      | 21.5          | 0.100     | 07/23/2025 13:02     |

Analyst(s): ACH

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| SB-05-5   | 2507B37-010B | Soil   | 07/16/2025 08:25 | WetChem    | 322025   |

|                 |               |           |                      |
|-----------------|---------------|-----------|----------------------|
| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>Date Analyzed</u> |
| % Moisture      | 14.2          | 0.100     | 07/23/2025 13:07     |

Analyst(s): ACH

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| SB-06-5   | 2507B37-012B | Soil   | 07/16/2025 13:57 | WetChem    | 322025   |

|                 |               |           |                      |
|-----------------|---------------|-----------|----------------------|
| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>Date Analyzed</u> |
| % Moisture      | 22.0          | 0.100     | 07/23/2025 13:12     |

Analyst(s): ACH



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/23/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** ASTM D2216-05  
**Analytical Method:** SW8000  
**Unit:** wet wt%

### Percent Moisture

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| SB-07-5   | 2507B37-014B | Soil   | 07/16/2025 13:23 | WetChem    | 322025   |

|                 |               |           |                      |
|-----------------|---------------|-----------|----------------------|
| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>Date Analyzed</u> |
| % Moisture      | 17.7          | 0.100     | 07/23/2025 13:17     |

Analyst(s): ACH

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| SB-08-5   | 2507B37-016B | Soil   | 07/16/2025 11:32 | WetChem    | 322025   |

|                 |               |           |                      |
|-----------------|---------------|-----------|----------------------|
| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>Date Analyzed</u> |
| % Moisture      | 20.0          | 0.100     | 07/23/2025 13:22     |

Analyst(s): ACH

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| SB-09-5   | 2507B37-018B | Soil   | 07/16/2025 11:53 | WetChem    | 322025   |

|                 |               |           |                      |
|-----------------|---------------|-----------|----------------------|
| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>Date Analyzed</u> |
| % Moisture      | 23.0          | 0.100     | 07/23/2025 13:27     |

Analyst(s): ACH



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 07/23/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**Extraction Method:** ASTM D2216-05  
**Analytical Method:** SW8000  
**Unit:** wet wt%

### Percent Moisture

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| SB-04-8.5 | 2507B37-019B | Soil   | 07/16/2025 10:46 | WetChem    | 322025   |

|                 |               |           |                      |
|-----------------|---------------|-----------|----------------------|
| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>Date Analyzed</u> |
| % Moisture      | 13.9          | 0.100     | 07/23/2025 13:32     |

Analyst(s): ACH

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| SB-04-10  | 2507B37-020B | Soil   | 07/16/2025 09:12 | WetChem    | 322025   |

|                 |               |           |                      |
|-----------------|---------------|-----------|----------------------|
| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>Date Analyzed</u> |
| % Moisture      | 18.8          | 0.100     | 07/23/2025 13:42     |

Analyst(s): ACH

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| SB-08-3   | 2507B37-021B | Soil   | 07/16/2025 11:38 | WetChem    | 322025   |

|                 |               |           |                      |
|-----------------|---------------|-----------|----------------------|
| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>Date Analyzed</u> |
| % Moisture      | 17.9          | 0.100     | 07/23/2025 14:46     |

Analyst(s): ACH



## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/19/2025  
**Date Analyzed:** 07/21/2025 - 07/22/2025  
**Instrument:** LC-MS4  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**BatchID:** 321764  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/g  
**Sample ID:** MB/LCS/LCSD-321764  
LCS2-321764

### QC Summary Report for E1633 Draft 3

| Analyte     | MB Result | MDL   | RL   | SPK Val | MB IS/SS %REC | MB IS/SS Limits |
|-------------|-----------|-------|------|---------|---------------|-----------------|
| 9CIPF3ONS   | ND        | 0.026 | 0.20 | -       | -             | -               |
| 11CIPF3OUdS | ND        | 0.047 | 0.20 | -       | -             | -               |
| 3:3 FTCA    | ND        | 0.063 | 0.20 | -       | -             | -               |
| 4:2 FTS     | ND        | 0.069 | 0.20 | -       | -             | -               |
| 5:3 FTCA    | ND        | 0.056 | 0.20 | -       | -             | -               |
| 6:2 FTS     | ND        | 0.068 | 0.20 | -       | -             | -               |
| 7:3 FTCA    | ND        | 0.040 | 0.20 | -       | -             | -               |
| 8:2 FTS     | ND        | 0.043 | 0.20 | -       | -             | -               |
| 10:2 FTS    | ND        | 0.052 | 0.19 | -       | -             | -               |
| ADONA       | ND        | 0.025 | 0.20 | -       | -             | -               |
| EtFOSA      | ND        | 0.039 | 0.20 | -       | -             | -               |
| EtFOSE      | ND        | 0.16  | 0.20 | -       | -             | -               |
| HFPO-DA     | ND        | 0.058 | 0.20 | -       | -             | -               |
| MeFOSA      | ND        | 0.037 | 0.20 | -       | -             | -               |
| MeFOSE      | ND        | 0.034 | 0.20 | -       | -             | -               |
| NEtFOSAA    | ND        | 0.032 | 0.20 | -       | -             | -               |
| NFDHA       | ND        | 0.045 | 0.20 | -       | -             | -               |
| NMeFOSAA    | ND        | 0.031 | 0.20 | -       | -             | -               |
| PFBA        | ND        | 0.069 | 0.20 | -       | -             | -               |
| PFBS        | ND        | 0.044 | 0.20 | -       | -             | -               |
| PFDA        | ND        | 0.024 | 0.20 | -       | -             | -               |
| PFDaA       | ND        | 0.041 | 0.20 | -       | -             | -               |
| PFDoS       | ND        | 0.036 | 0.20 | -       | -             | -               |
| PFDS        | ND        | 0.023 | 0.20 | -       | -             | -               |
| PFEESA      | ND        | 0.027 | 0.20 | -       | -             | -               |
| PFHpA       | ND        | 0.055 | 0.20 | -       | -             | -               |
| PFHpS       | 0.024,J   | 0.024 | 0.20 | -       | -             | -               |
| PFHxA       | ND        | 0.046 | 0.20 | -       | -             | -               |
| PFHxDA      | ND        | 0.046 | 0.20 | -       | -             | -               |
| PFHxS       | ND        | 0.045 | 0.20 | -       | -             | -               |
| PFMBA       | ND        | 0.022 | 0.20 | -       | -             | -               |
| PFMPA       | ND        | 0.019 | 0.20 | -       | -             | -               |
| PFNA        | ND        | 0.035 | 0.20 | -       | -             | -               |
| PFNS        | ND        | 0.036 | 0.20 | -       | -             | -               |
| PFOA        | ND        | 0.058 | 0.20 | -       | -             | -               |
| PFODA       | ND        | 0.14  | 0.20 | -       | -             | -               |
| PFOS        | 0.086,J   | 0.080 | 0.20 | -       | -             | -               |

(Cont.)



## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/19/2025  
**Date Analyzed:** 07/21/2025 - 07/22/2025  
**Instrument:** LC-MS4  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**BatchID:** 321764  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/g  
**Sample ID:** MB/LCS/LCSD-321764  
LCS2-321764

### QC Summary Report for E1633 Draft 3

| Analyte                   | MB Result | MDL   | RL   | SPK Val | MB IS/SS %REC | MB IS/SS Limits |
|---------------------------|-----------|-------|------|---------|---------------|-----------------|
| PFOSA                     | ND        | 0.12  | 0.20 | -       | -             | -               |
| PFPeA                     | ND        | 0.028 | 0.20 | -       | -             | -               |
| PFPeS                     | 0.032,J   | 0.031 | 0.20 | -       | -             | -               |
| PFTeDA                    | ND        | 0.028 | 0.20 | -       | -             | -               |
| PFTrDA                    | ND        | 0.074 | 0.20 | -       | -             | -               |
| PFUnA                     | ND        | 0.042 | 0.20 | -       | -             | -               |
| <b>Surrogate Recovery</b> |           |       |      |         |               |                 |
| 13C2-4:2 FTS              | 4.8       |       |      | 4.69    | 103           | 20-150          |
| 13C2-6:2 FTS              | 4.6       |       |      | 4.755   | 97            | 20-150          |
| 13C2-8:2 FTS              | 4.9       |       |      | 4.8     | 102           | 20-150          |
| 13C2-PFDoA                | 1.1       |       |      | 1.25    | 91            | 20-150          |
| 13C2-PFTeDA               | 0.89      |       |      | 1.25    | 71            | 20-150          |
| 13C3-HFPO-DA              | 11        |       |      | 10      | 108           | 20-150          |
| 13C3-PFBS                 | 2.2       |       |      | 2.33    | 93            | 20-150          |
| 13C3-PFHxS                | 2.3       |       |      | 2.37    | 98            | 20-150          |
| 13C4-PFBA                 | 10        |       |      | 10      | 102           | 20-150          |
| 13C4-PFHpA                | 2.7       |       |      | 2.5     | 108           | 20-150          |
| 13C5-PFHxA                | 2.8       |       |      | 2.5     | 113           | 20-150          |
| 13C5-PFPeA                | 5.2       |       |      | 5       | 104           | 20-150          |
| 13C6-PFDA                 | 1.3       |       |      | 1.25    | 105           | 20-150          |
| 13C7-PFUdA                | 1.2       |       |      | 1.25    | 94            | 20-150          |
| 13C8-PFOA                 | 2.5       |       |      | 2.5     | 100           | 20-150          |
| 13C8-PFOS                 | 2.4       |       |      | 2.395   | 100           | 20-150          |
| 13C8-PFOSA                | 2.8       |       |      | 2.5     | 112           | 20-150          |
| 13C9-PFNA                 | 1.2       |       |      | 1.25    | 97            | 20-150          |
| d3-MeFOSAA                | 5.2       |       |      | 5       | 105           | 20-150          |
| d5-EtFOSAA                | 4.2       |       |      | 5       | 84            | 20-150          |
| 13C2-PFHxDA               | 4.4       |       |      | 5       | 88            | 20-150          |
| d3-MeFOSA                 | 2.1       |       |      | 2.5     | 84            | 20-150          |
| d5-EtFOSA                 | 2.1       |       |      | 2.5     | 83            | 20-150          |
| d7N-MeFOSE1               | 20        |       |      | 25      | 81            | 20-150          |
| d9N-EtFOSE1               | 21        |       |      | 25      | 84            | 20-150          |
| 13C2-10:2 FTS             | 8.4       |       |      | 9.66    | 87            | 20-150          |

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/19/2025  
**Date Analyzed:** 07/21/2025 - 07/22/2025  
**Instrument:** LC-MS4  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**BatchID:** 321764  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/g  
**Sample ID:** MB/LCS/LCSD-321764  
LCS2-321764

### QC Summary Report for E1633 Draft 3

| Analyte     | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD    | RPD Limit |
|-------------|------------|-------------|---------|----------|-----------|-----------------|--------|-----------|
| 9CIPF3ONS   | 2.2        | 2.3         | 2       | 108      | 114       | 40-150          | 5.91   | 30        |
| 11CIPF3OUdS | 2.1        | 2.2         | 2       | 104      | 112       | 40-150          | 6.78   | 30        |
| 3:3 FTCA    | 2.3        | 2.1         | 2       | 114      | 105       | 40-150          | 7.85   | 30        |
| 4:2 FTS     | 2.0        | 2.0         | 2       | 98       | 99        | 40-150          | 1.02   | 30        |
| 5:3 FTCA    | 1.9        | 2.0         | 2       | 96       | 102       | 40-150          | 6.56   | 30        |
| 6:2 FTS     | 2.1        | 2.1         | 2       | 103      | 104       | 40-150          | 0.973  | 30        |
| 7:3 FTCA    | 1.8        | 1.9         | 2       | 90       | 93        | 40-150          | 3.27   | 30        |
| 8:2 FTS     | 2.0        | 2.0         | 2       | 102      | 102       | 40-150          | 0.0846 | 30        |
| 10:2 FTS    | 1.9        | 1.8         | 1.932   | 98       | 93        | 40-150          | 4.73   | 30        |
| ADONA       | 2.1        | 2.2         | 2       | 107      | 110       | 40-150          | 2.60   | 30        |
| EtFOSA      | 2.0        | 2.0         | 2       | 100      | 99        | 40-150          | 0.397  | 30        |
| EtFOSE      | 2.0        | 1.9         | 2       | 98       | 97        | 40-150          | 0.648  | 30        |
| HFPO-DA     | 2.0        | 2.0         | 2       | 100      | 102       | 40-150          | 2.52   | 30        |
| MeFOSA      | 1.9        | 2.0         | 2       | 97       | 98        | 40-150          | 0.580  | 30        |
| MeFOSE      | 2.0        | 2.0         | 2       | 100      | 101       | 40-150          | 1.20   | 30        |
| NEtFOSAA    | 2.2        | 2.2         | 2       | 110      | 111       | 40-150          | 1.18   | 30        |
| NFDHA       | 2.1        | 2.1         | 2       | 105      | 106       | 40-150          | 1.60   | 30        |
| NMeFOSAA    | 2.0        | 2.1         | 2       | 103      | 107       | 40-150          | 4.36   | 30        |
| PFBA        | 2.1        | 2.1         | 2       | 105      | 107       | 40-150          | 1.41   | 30        |
| PFBS        | 2.0        | 2.0         | 2       | 102      | 100       | 40-150          | 2.04   | 30        |
| PFDA        | 2.1        | 2.0         | 2       | 105      | 101       | 40-150          | 4.08   | 30        |
| PFDaA       | 1.9        | 1.9         | 2       | 95       | 96        | 40-150          | 0.929  | 30        |
| PFDoS       | 1.8        | 1.8         | 2       | 90       | 91        | 40-150          | 0.826  | 30        |
| PFDS        | 2.2        | 2.3         | 2       | 109      | 113       | 40-150          | 3.62   | 30        |
| PFEESA      | 2.0        | 2.2         | 2       | 102      | 109       | 40-150          | 6.73   | 30        |
| PFHpA       | 2.1        | 2.1         | 2       | 104      | 103       | 40-150          | 0.883  | 30        |
| PFHpS       | 2.0        | 2.0         | 2       | 102      | 101       | 40-150          | 0.223  | 30        |
| PFHxA       | 2.0        | 2.1         | 2       | 101      | 106       | 40-150          | 5.46   | 30        |
| PFHxDA      | 1.9        | 1.9         | 2       | 93       | 97        | 40-150          | 3.91   | 30        |
| PFHxS       | 2.0        | 2.0         | 2       | 98       | 99        | 40-150          | 0.683  | 30        |
| PFMBA       | 2.1        | 2.1         | 2       | 105      | 105       | 40-150          | 0.278  | 30        |
| PFMPA       | 2.1        | 2.2         | 2       | 105      | 109       | 40-150          | 3.90   | 30        |
| PFNA        | 2.1        | 2.0         | 2       | 104      | 99        | 40-150          | 5.29   | 30        |
| PFNS        | 2.1        | 2.0         | 2       | 105      | 101       | 40-150          | 3.39   | 30        |
| PFOA        | 2.1        | 2.0         | 2       | 104      | 102       | 40-150          | 1.51   | 30        |
| PFODA       | 1.9        | 1.9         | 2       | 93       | 95        | 40-150          | 2.64   | 30        |
| PFOS        | 2.0        | 2.0         | 2       | 102      | 101       | 40-150          | 1.44   | 30        |

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/19/2025  
**Date Analyzed:** 07/21/2025 - 07/22/2025  
**Instrument:** LC-MS4  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**BatchID:** 321764  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/g  
**Sample ID:** MB/LCS/LCSD-321764  
LCS2-321764

### QC Summary Report for E1633 Draft 3

| Analyte | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD  | RPD Limit |
|---------|------------|-------------|---------|----------|-----------|-----------------|------|-----------|
| PFOSA   | 1.9        | 2.0         | 2       | 96       | 98        | 40-150          | 2.20 | 30        |
| PFPeA   | 2.0        | 2.3         | 2       | 101      | 113       | 40-150          | 10.3 | 30        |
| PFPeS   | 1.8        | 2.0         | 2       | 92       | 100       | 40-150          | 7.75 | 30        |
| PFTeDA  | 2.1        | 2.0         | 2       | 104      | 100       | 40-150          | 4.07 | 30        |
| PFTrDA  | 2.4        | 2.3         | 2       | 120      | 114       | 40-150          | 5.56 | 30        |
| PFUnA   | 2.1        | 1.9         | 2       | 105      | 97        | 40-150          | 7.75 | 30        |

#### Surrogate Recovery

|               |      |      |       |     |     |        |       |    |
|---------------|------|------|-------|-----|-----|--------|-------|----|
| 13C2-4:2 FTS  | 4.9  | 4.7  | 4.69  | 104 | 101 | 20-150 | 3.24  | 30 |
| 13C2-6:2 FTS  | 4.7  | 4.9  | 4.755 | 98  | 102 | 20-150 | 4.26  | 30 |
| 13C2-8:2 FTS  | 5.1  | 5.1  | 4.8   | 107 | 107 | 20-150 | 0.302 | 30 |
| 13C2-PFDoA    | 1.2  | 1.3  | 1.25  | 99  | 101 | 20-150 | 1.74  | 30 |
| 13C2-PFTeDA   | 0.96 | 0.98 | 1.25  | 77  | 79  | 20-150 | 2.54  | 30 |
| 13C3-HFPO-DA  | 11   | 10   | 10    | 106 | 100 | 20-150 | 5.87  | 30 |
| 13C3-PFBS     | 2.3  | 2.4  | 2.33  | 100 | 101 | 20-150 | 0.518 | 30 |
| 13C3-PFHxS    | 2.5  | 2.4  | 2.37  | 104 | 102 | 20-150 | 1.23  | 30 |
| 13C4-PFBA     | 10   | 10   | 10    | 100 | 102 | 20-150 | 1.81  | 30 |
| 13C4-PFHpA    | 2.7  | 2.6  | 2.5   | 108 | 104 | 20-150 | 4.35  | 30 |
| 13C5-PFHxA    | 2.8  | 2.6  | 2.5   | 110 | 103 | 20-150 | 7.15  | 30 |
| 13C5-PFPeA    | 5.1  | 5.0  | 5     | 103 | 100 | 20-150 | 2.74  | 30 |
| 13C6-PFDA     | 1.3  | 1.3  | 1.25  | 107 | 105 | 20-150 | 1.59  | 30 |
| 13C7-PFUdA    | 1.2  | 1.2  | 1.25  | 96  | 96  | 20-150 | 0.315 | 30 |
| 13C8-PFOA     | 2.6  | 2.6  | 2.5   | 104 | 105 | 20-150 | 0.539 | 30 |
| 13C8-PFOS     | 2.5  | 2.6  | 2.395 | 106 | 108 | 20-150 | 1.70  | 30 |
| 13C8-PFOSA    | 2.8  | 2.8  | 2.5   | 111 | 111 | 20-150 | 0.139 | 30 |
| 13C9-PFNA     | 1.2  | 1.3  | 1.25  | 100 | 102 | 20-150 | 2.43  | 30 |
| d3-MeFOSAA    | 5.2  | 5.4  | 5     | 104 | 108 | 20-150 | 3.78  | 30 |
| d5-EtFOSAA    | 3.8  | 3.8  | 5     | 75  | 76  | 20-150 | 1.31  | 30 |
| 13C2-PFHxDA   | 4.3  | 4.3  | 5     | 86  | 85  | 20-150 | 0.515 | 30 |
| d3-MeFOSA     | 2.3  | 2.2  | 2.5   | 91  | 89  | 20-150 | 2.73  | 30 |
| d5-EtFOSA     | 2.2  | 2.2  | 2.5   | 89  | 87  | 20-150 | 2.03  | 30 |
| d7N-MeFOSE1   | 22   | 22   | 25    | 88  | 90  | 20-150 | 1.97  | 30 |
| d9N-EtFOSE1   | 23   | 23   | 25    | 93  | 91  | 20-150 | 1.66  | 30 |
| 13C2-10:2 FTS | 9.3  | 9.7  | 9.66  | 96  | 100 | 20-150 | 4.12  | 30 |

| Analyte | LCS2 Result | SPK Val | LCS2 %REC | LCS2 Limits |
|---------|-------------|---------|-----------|-------------|
|---------|-------------|---------|-----------|-------------|

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/19/2025  
**Date Analyzed:** 07/21/2025 - 07/22/2025  
**Instrument:** LC-MS4  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**BatchID:** 321764  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/g  
**Sample ID:** MB/LCS/LCSD-321764  
LCS2-321764

### QC Summary Report for E1633 Draft 3

|             |      |       |     |        |
|-------------|------|-------|-----|--------|
| 9CIPF3ONS   | 0.39 | 0.4   | 98  | 40-150 |
| 11CIPF3OUdS | 0.37 | 0.4   | 92  | 40-150 |
| 3:3 FTCA    | 0.40 | 0.4   | 100 | 40-150 |
| 4:2 FTS     | 0.36 | 0.4   | 90  | 40-150 |
| 5:3 FTCA    | 0.36 | 0.4   | 89  | 40-150 |
| 6:2 FTS     | 0.37 | 0.4   | 92  | 40-150 |
| 7:3 FTCA    | 0.36 | 0.4   | 91  | 40-150 |
| 8:2 FTS     | 0.38 | 0.4   | 95  | 40-150 |
| 10:2 FTS    | 0.32 | 0.386 | 82  | 40-150 |
| ADONA       | 0.38 | 0.4   | 96  | 40-150 |
| EtFOSA      | 0.37 | 0.4   | 92  | 40-150 |
| EtFOSE      | 0.36 | 0.4   | 91  | 40-150 |
| HFPO-DA     | 0.40 | 0.4   | 101 | 40-150 |
| MeFOSA      | 0.38 | 0.4   | 94  | 40-150 |
| MeFOSE      | 0.38 | 0.4   | 94  | 40-150 |
| NEtFOSAA    | 0.41 | 0.4   | 103 | 40-150 |
| NFDHA       | 0.38 | 0.4   | 94  | 40-150 |
| NMeFOSAA    | 0.37 | 0.4   | 93  | 40-150 |
| PFBA        | 0.37 | 0.4   | 92  | 40-150 |
| PFBS        | 0.37 | 0.4   | 92  | 40-150 |
| PFDA        | 0.37 | 0.4   | 93  | 40-150 |
| PFDaA       | 0.36 | 0.4   | 89  | 40-150 |
| PFDoS       | 0.33 | 0.4   | 82  | 40-150 |
| PFDS        | 0.39 | 0.4   | 97  | 40-150 |
| PFEESA      | 0.42 | 0.4   | 105 | 40-150 |
| PFHpA       | 0.36 | 0.4   | 90  | 40-150 |
| PFHpS       | 0.36 | 0.4   | 91  | 40-150 |
| PFHxA       | 0.35 | 0.4   | 89  | 40-150 |
| PFHxDA      | 0.35 | 0.4   | 88  | 40-150 |
| PFHxS       | 0.37 | 0.4   | 93  | 40-150 |
| PFMBA       | 0.40 | 0.4   | 101 | 40-150 |
| PFMPA       | 0.39 | 0.4   | 98  | 40-150 |
| PFNA        | 0.38 | 0.4   | 96  | 40-150 |
| PFNS        | 0.34 | 0.4   | 86  | 40-150 |
| PFOA        | 0.32 | 0.4   | 80  | 40-150 |
| PFODA       | 0.34 | 0.4   | 85  | 40-150 |
| PFOS        | 0.45 | 0.4   | 114 | 40-150 |
| PFOSA       | 0.47 | 0.4   | 119 | 40-150 |
| PFPeA       | 0.39 | 0.4   | 99  | 40-150 |
| PFPeS       | 0.37 | 0.4   | 91  | 40-150 |

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/19/2025  
**Date Analyzed:** 07/21/2025 - 07/22/2025  
**Instrument:** LC-MS4  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**BatchID:** 321764  
**Extraction Method:** E1633  
**Analytical Method:** E1633  
**Unit:** ng/g  
**Sample ID:** MB/LCS/LCSD-321764  
LCSD-321764

### QC Summary Report for E1633 Draft 3

| Analyte                   | LCS2 Result | SPK Val | LCS2 %REC | LCS2 Limits |
|---------------------------|-------------|---------|-----------|-------------|
| PFTeDA                    | 0.39        | 0.4     | 97        | 40-150      |
| PFTTrDA                   | 0.44        | 0.4     | 111       | 40-150      |
| PFUnA                     | 0.35        | 0.4     | 87        | 40-150      |
| <b>Surrogate Recovery</b> |             |         |           |             |
| 13C2-4:2 FTS              | 4.7         | 4.69    | 101       | 20-150      |
| 13C2-6:2 FTS              | 4.9         | 4.755   | 103       | 20-150      |
| 13C2-8:2 FTS              | 5.1         | 4.8     | 107       | 20-150      |
| 13C2-PFDoA                | 1.2         | 1.25    | 100       | 20-150      |
| 13C2-PFTeDA               | 0.99        | 1.25    | 79        | 20-150      |
| 13C3-HFPO-DA              | 11          | 10      | 111       | 20-150      |
| 13C3-PFBS                 | 2.4         | 2.33    | 103       | 20-150      |
| 13C3-PFHxS                | 2.5         | 2.37    | 106       | 20-150      |
| 13C4-PFBA                 | 10          | 10      | 105       | 20-150      |
| 13C4-PFHpA                | 2.8         | 2.5     | 114       | 20-150      |
| 13C5-PFHxA                | 2.8         | 2.5     | 110       | 20-150      |
| 13C5-PFPeA                | 5.2         | 5       | 105       | 20-150      |
| 13C6-PFDA                 | 1.3         | 1.25    | 104       | 20-150      |
| 13C7-PFUdA                | 1.2         | 1.25    | 95        | 20-150      |
| 13C8-PFOA                 | 2.7         | 2.5     | 107       | 20-150      |
| 13C8-PFOS                 | 2.6         | 2.395   | 109       | 20-150      |
| 13C8-PFOSA                | 2.3         | 2.5     | 91        | 20-150      |
| 13C9-PFNA                 | 1.3         | 1.25    | 106       | 20-150      |
| d3-MeFOSAA                | 5.3         | 5       | 105       | 20-150      |
| d5-EtFOSAA                | 3.7         | 5       | 73        | 20-150      |
| 13C2-PFHxDA               | 4.4         | 5       | 88        | 20-150      |
| d3-MeFOSA                 | 2.2         | 2.5     | 87        | 20-150      |
| d5-EtFOSA                 | 2.2         | 2.5     | 90        | 20-150      |
| d7N-MeFOSE1               | 22          | 25      | 89        | 20-150      |
| d9N-EtFOSE1               | 23          | 25      | 92        | 20-150      |
| 13C2-10:2 FTS             | 9.4         | 9.66    | 98        | 20-150      |



## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/23/2025  
**Date Analyzed:** 07/23/2025  
**Instrument:** GC20  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**BatchID:** 322009  
**Extraction Method:** SW3550B/3640Am/3630Cm  
**Analytical Method:** SW8081 B  
**Unit:** mg/kg  
**Sample ID:** MB/LCS/LCSD-322009

### QC Summary Report for SW8081 B

| Analyte                   | MB Result | MDL      | RL      | SPK Val | MB IS/SS %REC | MB IS/SS Limits |
|---------------------------|-----------|----------|---------|---------|---------------|-----------------|
| Aldrin                    | ND        | 0.000042 | 0.00010 | -       | -             | -               |
| a-BHC                     | ND        | 0.000050 | 0.00010 | -       | -             | -               |
| b-BHC                     | ND        | 0.000051 | 0.00010 | -       | -             | -               |
| d-BHC                     | ND        | 0.000041 | 0.00010 | -       | -             | -               |
| g-BHC                     | ND        | 0.000052 | 0.00010 | -       | -             | -               |
| Chlordane (Technical)     | ND        | 0.0014   | 0.0025  | -       | -             | -               |
| a-Chlordane               | ND        | 0.000045 | 0.00010 | -       | -             | -               |
| g-Chlordane               | ND        | 0.000058 | 0.00010 | -       | -             | -               |
| p,p-DDD                   | ND        | 0.000041 | 0.00010 | -       | -             | -               |
| p,p-DDE                   | ND        | 0.000058 | 0.00010 | -       | -             | -               |
| p,p-DDT                   | ND        | 0.000065 | 0.00010 | -       | -             | -               |
| Dieldrin                  | ND        | 0.000061 | 0.00010 | -       | -             | -               |
| Endosulfan I              | ND        | 0.000037 | 0.00010 | -       | -             | -               |
| Endosulfan II             | ND        | 0.000078 | 0.00010 | -       | -             | -               |
| Endosulfan sulfate        | ND        | 0.000036 | 0.00010 | -       | -             | -               |
| Endrin                    | ND        | 0.000070 | 0.00010 | -       | -             | -               |
| Endrin aldehyde           | ND        | 0.000061 | 0.00010 | -       | -             | -               |
| Endrin ketone             | ND        | 0.000087 | 0.00010 | -       | -             | -               |
| Heptachlor                | ND        | 0.000056 | 0.00010 | -       | -             | -               |
| Heptachlor epoxide        | ND        | 0.000035 | 0.00010 | -       | -             | -               |
| Hexachlorobenzene         | ND        | 0.000073 | 0.0010  | -       | -             | -               |
| Hexachlorocyclopentadiene | ND        | 0.00030  | 0.0020  | -       | -             | -               |
| Methoxychlor              | ND        | 0.000079 | 0.00020 | -       | -             | -               |
| Toxaphene                 | ND        | 0.0058   | 0.010   | -       | -             | -               |
| <b>Surrogate Recovery</b> |           |          |         |         |               |                 |
| Decachlorobiphenyl        | 0.0048    |          |         | 0.005   | 95            | 28-170          |

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/23/2025  
**Date Analyzed:** 07/23/2025  
**Instrument:** GC20  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**BatchID:** 322009  
**Extraction Method:** SW3550B/3640Am/3630Cm  
**Analytical Method:** SW8081 B  
**Unit:** mg/kg  
**Sample ID:** MB/LCS/LCSD-322009

### QC Summary Report for SW8081 B

| Analyte                   | LCS<br>Result | LCSD<br>Result | SPK<br>Val | LCS<br>%REC | LCSD<br>%REC | LCS/LCSD<br>Limits | RPD   | RPD<br>Limit |
|---------------------------|---------------|----------------|------------|-------------|--------------|--------------------|-------|--------------|
| Aldrin                    | 0.0041        | 0.0043         | 0.0050     | 82          | 86           | 31-155             | 4.80  | 20           |
| a-BHC                     | 0.0041        | 0.0044         | 0.0050     | 83          | 88           | 32-160             | 6.11  | 20           |
| b-BHC                     | 0.0037        | 0.0039         | 0.0050     | 74          | 78           | 44-149             | 4.07  | 20           |
| d-BHC                     | 0.0037        | 0.0039         | 0.0050     | 74          | 77           | 37-157             | 3.63  | 20           |
| g-BHC                     | 0.0040        | 0.0042         | 0.0050     | 80          | 84           | 43-154             | 5.15  | 20           |
| a-Chlordane               | 0.0039        | 0.0041         | 0.0050     | 79          | 81           | 39-150             | 3.29  | 20           |
| g-Chlordane               | 0.0045        | 0.0047         | 0.0050     | 90          | 94           | 39-151             | 3.35  | 20           |
| p,p-DDD                   | 0.0038        | 0.0039         | 0.0050     | 76          | 78           | 30-158             | 2.96  | 20           |
| p,p-DDE                   | 0.0039        | 0.0040         | 0.0050     | 77          | 80           | 47-149             | 2.91  | 20           |
| p,p-DDT                   | 0.0038        | 0.0039         | 0.0050     | 76          | 78           | 56-166             | 1.92  | 20           |
| Dieldrin                  | 0.0038        | 0.0039         | 0.0050     | 76          | 79           | 50-163             | 3.47  | 20           |
| Endosulfan I              | 0.0039        | 0.0041         | 0.0050     | 79          | 82           | 45-159             | 3.60  | 20           |
| Endosulfan II             | 0.0040        | 0.0041         | 0.0050     | 79          | 82           | 41-155             | 3.15  | 20           |
| Endosulfan sulfate        | 0.0039        | 0.0040         | 0.0050     | 77          | 79           | 45-156             | 2.39  | 20           |
| Endrin                    | 0.0046        | 0.0047         | 0.0050     | 92          | 94           | 54-154             | 2.50  | 20           |
| Endrin aldehyde           | 0.0033        | 0.0033         | 0.0050     | 65          | 67           | 27-159             | 2.44  | 20           |
| Endrin ketone             | 0.0039        | 0.0040         | 0.0050     | 78          | 79           | 40-147             | 2.04  | 20           |
| Heptachlor                | 0.0041        | 0.0043         | 0.0050     | 83          | 87           | 52-165             | 4.58  | 20           |
| Heptachlor epoxide        | 0.0039        | 0.0041         | 0.0050     | 79          | 81           | 46-145             | 3.64  | 20           |
| Hexachlorobenzene         | 0.0038        | 0.0040         | 0.0050     | 75          | 80           | 22-156             | 5.54  | 20           |
| Hexachlorocyclopentadiene | 0.0033        | 0.0037         | 0.0050     | 66          | 75           | 43-173             | 11.6  | 20           |
| Methoxychlor              | 0.0039        | 0.0039         | 0.0050     | 78          | 78           | 49-150             | 0.707 | 20           |
| <b>Surrogate Recovery</b> |               |                |            |             |              |                    |       |              |
| Decachlorobiphenyl        | 0.0049        | 0.0048         | 0.0050     | 99          | 96           | 28-170             | 2.99  | 30           |



## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/18/2025  
**Date Analyzed:** 07/22/2025  
**Instrument:** GC45  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**BatchID:** 321695  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg  
**Sample ID:** MB/LCS/LCSD-321695

### QC Summary Report for SW8260D

| Analyte                       | MB Result | MDL      | RL      | SPK Val | MB IS/SS %REC | MB IS/SS Limits |
|-------------------------------|-----------|----------|---------|---------|---------------|-----------------|
| Acetone                       | ND        | 0.12     | 0.20    | -       | -             | -               |
| tert-Amyl methyl ether (TAME) | ND        | 0.0012   | 0.0050  | -       | -             | -               |
| Benzene                       | ND        | 0.00095  | 0.0050  | -       | -             | -               |
| Bromobenzene                  | ND        | 0.0012   | 0.0050  | -       | -             | -               |
| Bromochloromethane            | ND        | 0.0011   | 0.0050  | -       | -             | -               |
| Bromodichloromethane          | ND        | 0.00023  | 0.0050  | -       | -             | -               |
| Bromoform                     | ND        | 0.0038   | 0.0050  | -       | -             | -               |
| Bromomethane                  | ND        | 0.0018   | 0.0050  | -       | -             | -               |
| 2-Butanone (MEK)              | ND        | 0.040    | 0.10    | -       | -             | -               |
| t-Butyl alcohol (TBA)         | ND        | 0.024    | 0.050   | -       | -             | -               |
| n-Butyl benzene               | ND        | 0.0016   | 0.0050  | -       | -             | -               |
| sec-Butyl benzene             | ND        | 0.0018   | 0.0050  | -       | -             | -               |
| tert-Butyl benzene            | ND        | 0.0021   | 0.0050  | -       | -             | -               |
| Carbon Disulfide              | ND        | 0.0011   | 0.0050  | -       | -             | -               |
| Carbon Tetrachloride          | ND        | 0.00017  | 0.0050  | -       | -             | -               |
| Chlorobenzene                 | ND        | 0.0012   | 0.0050  | -       | -             | -               |
| Chloroethane                  | ND        | 0.0017   | 0.0050  | -       | -             | -               |
| Chloroform                    | ND        | 0.00032  | 0.0050  | -       | -             | -               |
| Chloromethane                 | ND        | 0.0017   | 0.0050  | -       | -             | -               |
| 2-Chlorotoluene               | ND        | 0.0016   | 0.0050  | -       | -             | -               |
| 4-Chlorotoluene               | ND        | 0.0013   | 0.0050  | -       | -             | -               |
| Dibromochloromethane          | ND        | 0.00040  | 0.0050  | -       | -             | -               |
| 1,2-Dibromo-3-chloropropane   | ND        | 0.00048  | 0.00050 | -       | -             | -               |
| 1,2-Dibromoethane (EDB)       | ND        | 0.00013  | 0.00025 | -       | -             | -               |
| Dibromomethane                | ND        | 0.0012   | 0.0050  | -       | -             | -               |
| 1,2-Dichlorobenzene           | ND        | 0.0017   | 0.0050  | -       | -             | -               |
| 1,3-Dichlorobenzene           | ND        | 0.0015   | 0.0050  | -       | -             | -               |
| 1,4-Dichlorobenzene           | ND        | 0.0015   | 0.0050  | -       | -             | -               |
| Dichlorodifluoromethane       | ND        | 0.00063  | 0.0050  | -       | -             | -               |
| 1,1-Dichloroethane            | ND        | 0.0015   | 0.0050  | -       | -             | -               |
| 1,2-Dichloroethane (1,2-DCA)  | ND        | 0.000070 | 0.00010 | -       | -             | -               |
| 1,1-Dichloroethene            | ND        | 0.00011  | 0.0050  | -       | -             | -               |
| cis-1,2-Dichloroethene        | ND        | 0.0012   | 0.0050  | -       | -             | -               |
| trans-1,2-Dichloroethene      | ND        | 0.0012   | 0.0050  | -       | -             | -               |
| 1,2-Dichloropropane           | ND        | 0.0013   | 0.0050  | -       | -             | -               |
| 1,3-Dichloropropane           | ND        | 0.00088  | 0.0050  | -       | -             | -               |
| 2,2-Dichloropropane           | ND        | 0.0019   | 0.0050  | -       | -             | -               |
| 1,1-Dichloropropene           | ND        | 0.0018   | 0.0050  | -       | -             | -               |

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/18/2025  
**Date Analyzed:** 07/22/2025  
**Instrument:** GC45  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**BatchID:** 321695  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg  
**Sample ID:** MB/LCS/LCSD-321695

### QC Summary Report for SW8260D

| Analyte                       | MB Result | MDL     | RL      | SPK Val | MB IS/SS %REC | MB IS/SS Limits |
|-------------------------------|-----------|---------|---------|---------|---------------|-----------------|
| cis-1,3-Dichloropropene       | ND        | 0.00098 | 0.0050  | -       | -             | -               |
| trans-1,3-Dichloropropene     | ND        | 0.00097 | 0.0050  | -       | -             | -               |
| Diisopropyl ether (DIPE)      | ND        | 0.0018  | 0.0050  | -       | -             | -               |
| Ethylbenzene                  | ND        | 0.0011  | 0.0050  | -       | -             | -               |
| Ethyl tert-butyl ether (ETBE) | ND        | 0.0014  | 0.0050  | -       | -             | -               |
| Freon 113                     | ND        | 0.0011  | 0.0050  | -       | -             | -               |
| Hexachlorobutadiene           | ND        | 0.0012  | 0.0050  | -       | -             | -               |
| Hexachloroethane              | ND        | 0.00064 | 0.0050  | -       | -             | -               |
| 2-Hexanone                    | ND        | 0.0027  | 0.0050  | -       | -             | -               |
| Isopropylbenzene              | ND        | 0.0018  | 0.0050  | -       | -             | -               |
| 4-Isopropyl toluene           | ND        | 0.0019  | 0.0050  | -       | -             | -               |
| Methyl-t-butyl ether (MTBE)   | ND        | 0.0015  | 0.0050  | -       | -             | -               |
| Methylene chloride            | ND        | 0.012   | 0.020   | -       | -             | -               |
| 4-Methyl-2-pentanone (MIBK)   | ND        | 0.0017  | 0.0050  | -       | -             | -               |
| Naphthalene                   | ND        | 0.0030  | 0.0050  | -       | -             | -               |
| n-Propyl benzene              | ND        | 0.0019  | 0.0050  | -       | -             | -               |
| Styrene                       | ND        | 0.0014  | 0.0050  | -       | -             | -               |
| 1,1,1,2-Tetrachloroethane     | ND        | 0.0013  | 0.0050  | -       | -             | -               |
| 1,1,2,2-Tetrachloroethane     | ND        | 0.00044 | 0.0050  | -       | -             | -               |
| Tetrachloroethene             | ND        | 0.00029 | 0.0050  | -       | -             | -               |
| Toluene                       | ND        | 0.0016  | 0.0050  | -       | -             | -               |
| 1,2,3-Trichlorobenzene        | ND        | 0.0021  | 0.0050  | -       | -             | -               |
| 1,2,4-Trichlorobenzene        | ND        | 0.0016  | 0.0050  | -       | -             | -               |
| 1,1,1-Trichloroethane         | ND        | 0.0016  | 0.0050  | -       | -             | -               |
| 1,1,2-Trichloroethane         | ND        | 0.0012  | 0.0050  | -       | -             | -               |
| Trichloroethene               | ND        | 0.0014  | 0.0050  | -       | -             | -               |
| Trichlorofluoromethane        | ND        | 0.0013  | 0.0050  | -       | -             | -               |
| 1,2,3-Trichloropropane        | ND        | 0.00017 | 0.00025 | -       | -             | -               |
| 1,2,4-Trimethylbenzene        | ND        | 0.0016  | 0.0050  | -       | -             | -               |
| 1,3,5-Trimethylbenzene        | ND        | 0.0017  | 0.0050  | -       | -             | -               |
| Vinyl Chloride                | ND        | 0.00012 | 0.00025 | -       | -             | -               |
| m,p-Xylene                    | ND        | 0.0026  | 0.0050  | -       | -             | -               |
| o-Xylene                      | ND        | 0.0014  | 0.0050  | -       | -             | -               |

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## Quality Control Report

|                       |                             |                           |                    |
|-----------------------|-----------------------------|---------------------------|--------------------|
| <b>Client:</b>        | Langan                      | <b>WorkOrder:</b>         | 2507B37            |
| <b>Date Prepared:</b> | 07/18/2025                  | <b>BatchID:</b>           | 321695             |
| <b>Date Analyzed:</b> | 07/22/2025                  | <b>Extraction Method:</b> | SW5030B            |
| <b>Instrument:</b>    | GC45                        | <b>Analytical Method:</b> | SW8260D            |
| <b>Matrix:</b>        | Soil                        | <b>Unit:</b>              | mg/kg              |
| <b>Project:</b>       | 770651908; Northtown Campus | <b>Sample ID:</b>         | MB/LCS/LCSD-321695 |

### QC Summary Report for SW8260D

| Analyte                   | MB<br>Result | MDL | RL | SPK<br>Val | MB IS/SS<br>%REC | MB IS/SS<br>Limits |
|---------------------------|--------------|-----|----|------------|------------------|--------------------|
| <b>Surrogate Recovery</b> |              |     |    |            |                  |                    |
| Dibromofluoromethane      | 0.12         |     |    | 0.125      | 95               | 70-140             |
| Toluene-d8                | 0.13         |     |    | 0.125      | 108              | 70-140             |
| 4-BFB                     | 0.014        |     |    | 0.0125     | 109              | 70-140             |
| Benzene-d6                | 0.12         |     |    | 0.1        | 116              | 70-140             |
| Ethylbenzene-d10          | 0.12         |     |    | 0.1        | 122              | 70-140             |
| 1,2-DCB-d4                | 0.085        |     |    | 0.1        | 85               | 70-140             |

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/18/2025  
**Date Analyzed:** 07/22/2025  
**Instrument:** GC45  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**BatchID:** 321695  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg  
**Sample ID:** MB/LCS/LCSD-321695

### QC Summary Report for SW8260D

| Analyte                       | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD     | RPD Limit |
|-------------------------------|------------|-------------|---------|----------|-----------|-----------------|---------|-----------|
| Acetone                       | 0.22       | 0.23        | 0.20    | 112      | 116       | 60-140          | 3.23    | 30        |
| tert-Amyl methyl ether (TAME) | 0.017      | 0.017       | 0.020   | 86       | 86        | 50-140          | 0.222   | 30        |
| Benzene                       | 0.019      | 0.019       | 0.020   | 93       | 93        | 60-140          | 0.765   | 30        |
| Bromobenzene                  | 0.021      | 0.021       | 0.020   | 104      | 105       | 60-140          | 1.06    | 30        |
| Bromochloromethane            | 0.020      | 0.019       | 0.020   | 99       | 95        | 60-140          | 4.12    | 30        |
| Bromodichloromethane          | 0.017      | 0.017       | 0.020   | 85       | 85        | 60-140          | 0.245   | 30        |
| Bromoform                     | 0.015      | 0.016       | 0.020   | 77       | 78        | 40-140          | 1.06    | 30        |
| Bromomethane                  | 0.019      | 0.018       | 0.020   | 94       | 90        | 30-140          | 4.61    | 30        |
| 2-Butanone (MEK)              | 0.093      | 0.069       | 0.080   | 116      | 86        | 50-140          | 30.3,F2 | 30        |
| t-Butyl alcohol (TBA)         | 0.085      | 0.084       | 0.080   | 106      | 105       | 50-140          | 0.960   | 30        |
| n-Butyl benzene               | 0.025      | 0.025       | 0.020   | 126      | 125       | 60-150          | 0.570   | 30        |
| sec-Butyl benzene             | 0.025      | 0.025       | 0.020   | 123      | 123       | 60-150          | 0.138   | 30        |
| tert-Butyl benzene            | 0.024      | 0.024       | 0.020   | 119      | 120       | 60-140          | 1.09    | 30        |
| Carbon Disulfide              | 0.019      | 0.019       | 0.020   | 96       | 96        | 50-140          | 0.143   | 30        |
| Carbon Tetrachloride          | 0.018      | 0.018       | 0.020   | 90       | 91        | 60-140          | 0.577   | 30        |
| Chlorobenzene                 | 0.020      | 0.020       | 0.020   | 101      | 100       | 60-140          | 1.15    | 30        |
| Chloroethane                  | 0.019      | 0.018       | 0.020   | 96       | 91        | 50-140          | 5.53    | 30        |
| Chloroform                    | 0.020      | 0.020       | 0.020   | 100      | 100       | 60-140          | 0.0229  | 30        |
| Chloromethane                 | 0.016      | 0.016       | 0.020   | 79       | 78        | 20-140          | 1.49    | 30        |
| 2-Chlorotoluene               | 0.023      | 0.023       | 0.020   | 114      | 114       | 60-140          | 0.269   | 30        |
| 4-Chlorotoluene               | 0.023      | 0.023       | 0.020   | 114      | 114       | 60-140          | 0.269   | 30        |
| Dibromochloromethane          | 0.018      | 0.018       | 0.020   | 89       | 88        | 50-140          | 0.997   | 30        |
| 1,2-Dibromo-3-chloropropane   | 0.0078     | 0.0078      | 0.010   | 78       | 78        | 30-140          | 0.391   | 30        |
| 1,2-Dibromoethane (EDB)       | 0.011      | 0.011       | 0.010   | 111      | 110       | 40-140          | 0.718   | 30        |
| Dibromomethane                | 0.019      | 0.018       | 0.020   | 93       | 92        | 60-140          | 0.610   | 30        |
| 1,2-Dichlorobenzene           | 0.018      | 0.018       | 0.020   | 89       | 90        | 60-140          | 0.727   | 30        |
| 1,3-Dichlorobenzene           | 0.020      | 0.021       | 0.020   | 101      | 103       | 60-140          | 2.32    | 30        |
| 1,4-Dichlorobenzene           | 0.020      | 0.020       | 0.020   | 99       | 101       | 60-140          | 2.92    | 30        |
| Dichlorodifluoromethane       | 0.0091     | 0.0090      | 0.020   | 45       | 45        | 10-140          | 1.18    | 30        |
| 1,1-Dichloroethane            | 0.019      | 0.019       | 0.020   | 96       | 97        | 60-140          | 0.572   | 30        |
| 1,2-Dichloroethane (1,2-DCA)  | 0.018      | 0.019       | 0.020   | 92       | 93        | 60-140          | 0.652   | 30        |
| 1,1-Dichloroethene            | 0.022      | 0.021       | 0.020   | 108      | 106       | 60-140          | 1.92    | 30        |
| cis-1,2-Dichloroethene        | 0.020      | 0.020       | 0.020   | 99       | 100       | 60-140          | 1.23    | 30        |
| trans-1,2-Dichloroethene      | 0.021      | 0.020       | 0.020   | 104      | 102       | 60-140          | 2.48    | 30        |
| 1,2-Dichloropropane           | 0.019      | 0.019       | 0.020   | 97       | 97        | 60-140          | 0.171   | 30        |
| 1,3-Dichloropropane           | 0.020      | 0.020       | 0.020   | 101      | 100       | 60-140          | 0.952   | 30        |
| 2,2-Dichloropropane           | 0.021      | 0.021       | 0.020   | 107      | 104       | 60-140          | 2.35    | 30        |
| 1,1-Dichloropropene           | 0.020      | 0.020       | 0.020   | 102      | 100       | 60-140          | 2.33    | 30        |

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/18/2025  
**Date Analyzed:** 07/22/2025  
**Instrument:** GC45  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**BatchID:** 321695  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg  
**Sample ID:** MB/LCS/LCSD-321695

### QC Summary Report for SW8260D

| Analyte                       | LCS<br>Result | LCSD<br>Result | SPK<br>Val | LCS<br>%REC | LCSD<br>%REC | LCS/LCSD<br>Limits | RPD    | RPD<br>Limit |
|-------------------------------|---------------|----------------|------------|-------------|--------------|--------------------|--------|--------------|
| cis-1,3-Dichloropropene       | 0.019         | 0.019          | 0.020      | 97          | 95           | 60-140             | 1.53   | 30           |
| trans-1,3-Dichloropropene     | 0.019         | 0.019          | 0.020      | 97          | 97           | 60-140             | 0.934  | 30           |
| Diisopropyl ether (DIPE)      | 0.018         | 0.018          | 0.020      | 92          | 92           | 60-140             | 0.156  | 30           |
| Ethylbenzene                  | 0.021         | 0.021          | 0.020      | 105         | 104          | 60-140             | 0.937  | 30           |
| Ethyl tert-butyl ether (ETBE) | 0.018         | 0.018          | 0.020      | 92          | 91           | 60-140             | 1.96   | 30           |
| Freon 113                     | 0.017         | 0.017          | 0.020      | 84          | 84           | 50-140             | 0.0338 | 30           |
| Hexachlorobutadiene           | 0.025         | 0.024          | 0.020      | 124         | 122          | 60-140             | 1.97   | 30           |
| Hexachloroethane              | 0.020         | 0.020          | 0.020      | 99          | 100          | 60-140             | 0.723  | 30           |
| 2-Hexanone                    | 0.016         | 0.018          | 0.020      | 79          | 88           | 40-140             | 10.9   | 30           |
| Isopropylbenzene              | 0.025         | 0.025          | 0.020      | 126         | 126          | 60-140             | 0.558  | 30           |
| 4-Isopropyl toluene           | 0.024         | 0.025          | 0.020      | 122         | 124          | 60-150             | 1.38   | 30           |
| Methyl-t-butyl ether (MTBE)   | 0.018         | 0.018          | 0.020      | 92          | 91           | 50-140             | 0.471  | 30           |
| Methylene chloride            | 0.027         | 0.027          | 0.020      | 137         | 137          | 60-140             | 0.373  | 30           |
| 4-Methyl-2-pentanone (MIBK)   | 0.017         | 0.017          | 0.020      | 86          | 85           | 50-140             | 1.38   | 30           |
| Naphthalene                   | 0.013         | 0.012          | 0.020      | 63          | 58           | 30-140             | 8.70   | 30           |
| n-Propyl benzene              | 0.026         | 0.026          | 0.020      | 130         | 128          | 60-140             | 1.45   | 30           |
| Styrene                       | 0.019         | 0.019          | 0.020      | 97          | 97           | 60-140             | 0.271  | 30           |
| 1,1,1,2-Tetrachloroethane     | 0.020         | 0.019          | 0.020      | 100         | 97           | 60-140             | 2.71   | 30           |
| 1,1,2,2-Tetrachloroethane     | 0.019         | 0.019          | 0.020      | 95          | 96           | 40-140             | 1.65   | 30           |
| Tetrachloroethene             | 0.024         | 0.023          | 0.020      | 118         | 114          | 60-140             | 3.87   | 30           |
| Toluene                       | 0.022         | 0.021          | 0.020      | 109         | 106          | 60-140             | 3.33   | 30           |
| 1,2,3-Trichlorobenzene        | 0.013         | 0.013          | 0.020      | 65          | 66           | 40-140             | 1.71   | 30           |
| 1,2,4-Trichlorobenzene        | 0.017         | 0.016          | 0.020      | 83          | 81           | 50-140             | 2.38   | 30           |
| 1,1,1-Trichloroethane         | 0.020         | 0.019          | 0.020      | 98          | 97           | 60-140             | 1.08   | 30           |
| 1,1,2-Trichloroethane         | 0.021         | 0.020          | 0.020      | 104         | 101          | 60-140             | 2.85   | 30           |
| Trichloroethene               | 0.022         | 0.021          | 0.020      | 108         | 106          | 60-140             | 1.45   | 30           |
| Trichlorofluoromethane        | 0.018         | 0.018          | 0.020      | 91          | 91           | 50-140             | 0.124  | 30           |
| 1,2,3-Trichloropropane        | 0.011         | 0.011          | 0.010      | 105         | 107          | 60-130             | 1.32   | 30           |
| 1,2,4-Trimethylbenzene        | 0.022         | 0.022          | 0.020      | 110         | 112          | 30-140             | 2.32   | 30           |
| 1,3,5-Trimethylbenzene        | 0.024         | 0.024          | 0.020      | 118         | 118          | 60-140             | 0.194  | 30           |
| Vinyl Chloride                | 0.0078        | 0.0076         | 0.010      | 78          | 76           | 30-140             | 3.18   | 30           |
| m,p-Xylene                    | 0.043         | 0.042          | 0.040      | 107         | 106          | 60-140             | 0.840  | 30           |
| o-Xylene                      | 0.019         | 0.019          | 0.020      | 97          | 96           | 60-140             | 0.564  | 30           |

(Cont.)



## Quality Control Report

|                       |                             |                           |                    |
|-----------------------|-----------------------------|---------------------------|--------------------|
| <b>Client:</b>        | Langan                      | <b>WorkOrder:</b>         | 2507B37            |
| <b>Date Prepared:</b> | 07/18/2025                  | <b>BatchID:</b>           | 321695             |
| <b>Date Analyzed:</b> | 07/22/2025                  | <b>Extraction Method:</b> | SW5030B            |
| <b>Instrument:</b>    | GC45                        | <b>Analytical Method:</b> | SW8260D            |
| <b>Matrix:</b>        | Soil                        | <b>Unit:</b>              | mg/kg              |
| <b>Project:</b>       | 770651908; Northtown Campus | <b>Sample ID:</b>         | MB/LCS/LCSD-321695 |

### QC Summary Report for SW8260D

| Analyte                   | LCS<br>Result | LCSD<br>Result | SPK<br>Val | LCS<br>%REC | LCSD<br>%REC | LCS/LCSD<br>Limits | RPD   | RPD<br>Limit |
|---------------------------|---------------|----------------|------------|-------------|--------------|--------------------|-------|--------------|
| <b>Surrogate Recovery</b> |               |                |            |             |              |                    |       |              |
| Dibromofluoromethane      | 0.12          | 0.12           | 0.12       | 98          | 97           | 70-140             | 0.242 | 30           |
| Toluene-d8                | 0.13          | 0.13           | 0.12       | 108         | 106          | 70-140             | 1.22  | 30           |
| 4-BFB                     | 0.014         | 0.014          | 0.012      | 110         | 112          | 70-140             | 1.99  | 30           |
| Benzene-d6                | 0.10          | 0.10           | 0.10       | 103         | 102          | 70-140             | 0.966 | 30           |
| Ethylbenzene-d10          | 0.12          | 0.12           | 0.10       | 118         | 117          | 70-140             | 1.06  | 30           |
| 1,2-DCB-d4                | 0.088         | 0.089          | 0.10       | 88          | 89           | 70-140             | 1.48  | 30           |



## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/18/2025  
**Date Analyzed:** 07/23/2025  
**Instrument:** GC28  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**BatchID:** 321720  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg  
**Sample ID:** MB/LCS/LCSD-321720

### QC Summary Report for SW8260D

| Analyte                       | MB Result | MDL      | RL      | SPK Val | MB IS/SS %REC | MB IS/SS Limits |
|-------------------------------|-----------|----------|---------|---------|---------------|-----------------|
| Acetone                       | ND        | 0.12     | 0.20    | -       | -             | -               |
| tert-Amyl methyl ether (TAME) | ND        | 0.0012   | 0.0050  | -       | -             | -               |
| Benzene                       | ND        | 0.00095  | 0.0050  | -       | -             | -               |
| Bromobenzene                  | ND        | 0.0012   | 0.0050  | -       | -             | -               |
| Bromochloromethane            | ND        | 0.0011   | 0.0050  | -       | -             | -               |
| Bromodichloromethane          | ND        | 0.00023  | 0.0050  | -       | -             | -               |
| Bromoform                     | ND        | 0.0038   | 0.0050  | -       | -             | -               |
| Bromomethane                  | ND        | 0.0018   | 0.0050  | -       | -             | -               |
| 2-Butanone (MEK)              | ND        | 0.040    | 0.10    | -       | -             | -               |
| t-Butyl alcohol (TBA)         | ND        | 0.024    | 0.050   | -       | -             | -               |
| n-Butyl benzene               | ND        | 0.0016   | 0.0050  | -       | -             | -               |
| sec-Butyl benzene             | ND        | 0.0018   | 0.0050  | -       | -             | -               |
| tert-Butyl benzene            | ND        | 0.0021   | 0.0050  | -       | -             | -               |
| Carbon Disulfide              | ND        | 0.0011   | 0.0050  | -       | -             | -               |
| Carbon Tetrachloride          | ND        | 0.00017  | 0.0050  | -       | -             | -               |
| Chlorobenzene                 | ND        | 0.0012   | 0.0050  | -       | -             | -               |
| Chloroethane                  | ND        | 0.0017   | 0.0050  | -       | -             | -               |
| Chloroform                    | ND        | 0.00032  | 0.0050  | -       | -             | -               |
| Chloromethane                 | ND        | 0.0017   | 0.0050  | -       | -             | -               |
| 2-Chlorotoluene               | ND        | 0.0016   | 0.0050  | -       | -             | -               |
| 4-Chlorotoluene               | ND        | 0.0013   | 0.0050  | -       | -             | -               |
| Dibromochloromethane          | ND        | 0.00040  | 0.0050  | -       | -             | -               |
| 1,2-Dibromo-3-chloropropane   | ND        | 0.00048  | 0.00050 | -       | -             | -               |
| 1,2-Dibromoethane (EDB)       | ND        | 0.00013  | 0.00025 | -       | -             | -               |
| Dibromomethane                | ND        | 0.0012   | 0.0050  | -       | -             | -               |
| 1,2-Dichlorobenzene           | ND        | 0.0017   | 0.0050  | -       | -             | -               |
| 1,3-Dichlorobenzene           | ND        | 0.0015   | 0.0050  | -       | -             | -               |
| 1,4-Dichlorobenzene           | ND        | 0.0015   | 0.0050  | -       | -             | -               |
| Dichlorodifluoromethane       | ND        | 0.00063  | 0.0050  | -       | -             | -               |
| 1,1-Dichloroethane            | ND        | 0.0015   | 0.0050  | -       | -             | -               |
| 1,2-Dichloroethane (1,2-DCA)  | ND        | 0.000070 | 0.00010 | -       | -             | -               |
| 1,1-Dichloroethene            | ND        | 0.00011  | 0.0050  | -       | -             | -               |
| cis-1,2-Dichloroethene        | ND        | 0.0012   | 0.0050  | -       | -             | -               |
| trans-1,2-Dichloroethene      | ND        | 0.0012   | 0.0050  | -       | -             | -               |
| 1,2-Dichloropropane           | ND        | 0.0013   | 0.0050  | -       | -             | -               |
| 1,3-Dichloropropane           | ND        | 0.00088  | 0.0050  | -       | -             | -               |
| 2,2-Dichloropropane           | ND        | 0.0019   | 0.0050  | -       | -             | -               |
| 1,1-Dichloropropene           | ND        | 0.0018   | 0.0050  | -       | -             | -               |

(Cont.)



## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/18/2025  
**Date Analyzed:** 07/23/2025  
**Instrument:** GC28  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**BatchID:** 321720  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg  
**Sample ID:** MB/LCS/LCSD-321720

### QC Summary Report for SW8260D

| Analyte                       | MB Result | MDL     | RL      | SPK Val | MB IS/SS %REC | MB IS/SS Limits |
|-------------------------------|-----------|---------|---------|---------|---------------|-----------------|
| cis-1,3-Dichloropropene       | ND        | 0.00098 | 0.0050  | -       | -             | -               |
| trans-1,3-Dichloropropene     | ND        | 0.00097 | 0.0050  | -       | -             | -               |
| Diisopropyl ether (DIPE)      | ND        | 0.0018  | 0.0050  | -       | -             | -               |
| Ethylbenzene                  | ND        | 0.0011  | 0.0050  | -       | -             | -               |
| Ethyl tert-butyl ether (ETBE) | ND        | 0.0014  | 0.0050  | -       | -             | -               |
| Freon 113                     | ND        | 0.0011  | 0.0050  | -       | -             | -               |
| Hexachlorobutadiene           | ND        | 0.0012  | 0.0050  | -       | -             | -               |
| Hexachloroethane              | ND        | 0.00064 | 0.0050  | -       | -             | -               |
| 2-Hexanone                    | ND        | 0.0027  | 0.0050  | -       | -             | -               |
| Isopropylbenzene              | ND        | 0.0018  | 0.0050  | -       | -             | -               |
| 4-Isopropyl toluene           | ND        | 0.0019  | 0.0050  | -       | -             | -               |
| Methyl-t-butyl ether (MTBE)   | ND        | 0.0015  | 0.0050  | -       | -             | -               |
| Methylene chloride            | ND        | 0.012   | 0.020   | -       | -             | -               |
| 4-Methyl-2-pentanone (MIBK)   | ND        | 0.0017  | 0.0050  | -       | -             | -               |
| Naphthalene                   | ND        | 0.0030  | 0.0050  | -       | -             | -               |
| n-Propyl benzene              | ND        | 0.0019  | 0.0050  | -       | -             | -               |
| Styrene                       | ND        | 0.0014  | 0.0050  | -       | -             | -               |
| 1,1,1,2-Tetrachloroethane     | ND        | 0.0013  | 0.0050  | -       | -             | -               |
| 1,1,2,2-Tetrachloroethane     | ND        | 0.00044 | 0.0050  | -       | -             | -               |
| Tetrachloroethene             | ND        | 0.00029 | 0.0050  | -       | -             | -               |
| Toluene                       | ND        | 0.0016  | 0.0050  | -       | -             | -               |
| 1,2,3-Trichlorobenzene        | ND        | 0.0021  | 0.0050  | -       | -             | -               |
| 1,2,4-Trichlorobenzene        | ND        | 0.0016  | 0.0050  | -       | -             | -               |
| 1,1,1-Trichloroethane         | ND        | 0.0016  | 0.0050  | -       | -             | -               |
| 1,1,2-Trichloroethane         | ND        | 0.0012  | 0.0050  | -       | -             | -               |
| Trichloroethene               | ND        | 0.0014  | 0.0050  | -       | -             | -               |
| Trichlorofluoromethane        | ND        | 0.0013  | 0.0050  | -       | -             | -               |
| 1,2,3-Trichloropropane        | ND        | 0.00017 | 0.00025 | -       | -             | -               |
| 1,2,4-Trimethylbenzene        | ND        | 0.0016  | 0.0050  | -       | -             | -               |
| 1,3,5-Trimethylbenzene        | ND        | 0.0017  | 0.0050  | -       | -             | -               |
| Vinyl Chloride                | ND        | 0.00012 | 0.00025 | -       | -             | -               |
| m,p-Xylene                    | ND        | 0.0026  | 0.0050  | -       | -             | -               |
| o-Xylene                      | ND        | 0.0014  | 0.0050  | -       | -             | -               |

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## Quality Control Report

|                       |                             |                           |                    |
|-----------------------|-----------------------------|---------------------------|--------------------|
| <b>Client:</b>        | Langan                      | <b>WorkOrder:</b>         | 2507B37            |
| <b>Date Prepared:</b> | 07/18/2025                  | <b>BatchID:</b>           | 321720             |
| <b>Date Analyzed:</b> | 07/23/2025                  | <b>Extraction Method:</b> | SW5030B            |
| <b>Instrument:</b>    | GC28                        | <b>Analytical Method:</b> | SW8260D            |
| <b>Matrix:</b>        | Soil                        | <b>Unit:</b>              | mg/kg              |
| <b>Project:</b>       | 770651908; Northtown Campus | <b>Sample ID:</b>         | MB/LCS/LCSD-321720 |

### QC Summary Report for SW8260D

| Analyte                   | MB<br>Result | MDL | RL | SPK<br>Val | MB IS/SS<br>%REC | MB IS/SS<br>Limits |
|---------------------------|--------------|-----|----|------------|------------------|--------------------|
| <b>Surrogate Recovery</b> |              |     |    |            |                  |                    |
| Dibromofluoromethane      | 0.12         |     |    | 0.125      | 97               | 70-140             |
| Toluene-d8                | 0.13         |     |    | 0.125      | 108              | 70-140             |
| 4-BFB                     | 0.013        |     |    | 0.0125     | 103              | 70-140             |
| Benzene-d6                | 0.097        |     |    | 0.1        | 97               | 70-140             |
| Ethylbenzene-d10          | 0.11         |     |    | 0.1        | 112              | 70-140             |
| 1,2-DCB-d4                | 0.075        |     |    | 0.1        | 75               | 70-140             |

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/18/2025  
**Date Analyzed:** 07/23/2025  
**Instrument:** GC28  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**BatchID:** 321720  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg  
**Sample ID:** MB/LCS/LCSD-321720

### QC Summary Report for SW8260D

| Analyte                       | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD   | RPD Limit |
|-------------------------------|------------|-------------|---------|----------|-----------|-----------------|-------|-----------|
| Acetone                       | 0.23       | 0.22        | 0.20    | 114      | 110       | 60-140          | 3.89  | 30        |
| tert-Amyl methyl ether (TAME) | 0.017      | 0.019       | 0.020   | 84       | 93        | 50-140          | 10.0  | 30        |
| Benzene                       | 0.018      | 0.018       | 0.020   | 90       | 89        | 60-140          | 2.05  | 30        |
| Bromobenzene                  | 0.020      | 0.019       | 0.020   | 99       | 97        | 60-140          | 2.43  | 30        |
| Bromochloromethane            | 0.019      | 0.019       | 0.020   | 97       | 94        | 60-140          | 3.26  | 30        |
| Bromodichloromethane          | 0.018      | 0.018       | 0.020   | 91       | 89        | 60-140          | 2.49  | 30        |
| Bromoform                     | 0.016      | 0.015       | 0.020   | 78       | 75        | 40-140          | 3.58  | 30        |
| Bromomethane                  | 0.020      | 0.019       | 0.020   | 98       | 95        | 30-140          | 2.87  | 30        |
| 2-Butanone (MEK)              | 0.073      | 0.078       | 0.080   | 91       | 97        | 50-140          | 6.48  | 30        |
| t-Butyl alcohol (TBA)         | 0.070      | 0.082       | 0.080   | 88       | 103       | 50-140          | 15.6  | 30        |
| n-Butyl benzene               | 0.025      | 0.025       | 0.020   | 127      | 123       | 60-150          | 3.39  | 30        |
| sec-Butyl benzene             | 0.025      | 0.024       | 0.020   | 126      | 121       | 60-150          | 3.64  | 30        |
| tert-Butyl benzene            | 0.024      | 0.023       | 0.020   | 118      | 115       | 60-140          | 2.27  | 30        |
| Carbon Disulfide              | 0.021      | 0.020       | 0.020   | 103      | 101       | 50-140          | 1.34  | 30        |
| Carbon Tetrachloride          | 0.020      | 0.020       | 0.020   | 100      | 98        | 60-140          | 2.08  | 30        |
| Chlorobenzene                 | 0.020      | 0.019       | 0.020   | 98       | 97        | 60-140          | 0.892 | 30        |
| Chloroethane                  | 0.020      | 0.019       | 0.020   | 98       | 94        | 50-140          | 4.20  | 30        |
| Chloroform                    | 0.019      | 0.019       | 0.020   | 96       | 94        | 60-140          | 2.29  | 30        |
| Chloromethane                 | 0.018      | 0.017       | 0.020   | 89       | 87        | 20-140          | 1.93  | 30        |
| 2-Chlorotoluene               | 0.022      | 0.021       | 0.020   | 111      | 107       | 60-140          | 3.87  | 30        |
| 4-Chlorotoluene               | 0.022      | 0.022       | 0.020   | 111      | 108       | 60-140          | 2.65  | 30        |
| Dibromochloromethane          | 0.018      | 0.018       | 0.020   | 90       | 88        | 50-140          | 2.86  | 30        |
| 1,2-Dibromo-3-chloropropane   | 0.0079     | 0.0073      | 0.010   | 79       | 73        | 30-140          | 7.87  | 30        |
| 1,2-Dibromoethane (EDB)       | 0.0092     | 0.0089      | 0.010   | 92       | 89        | 40-140          | 2.80  | 30        |
| Dibromomethane                | 0.019      | 0.018       | 0.020   | 93       | 89        | 60-140          | 3.87  | 30        |
| 1,2-Dichlorobenzene           | 0.018      | 0.017       | 0.020   | 88       | 85        | 60-140          | 3.71  | 30        |
| 1,3-Dichlorobenzene           | 0.020      | 0.020       | 0.020   | 101      | 98        | 60-140          | 3.08  | 30        |
| 1,4-Dichlorobenzene           | 0.020      | 0.019       | 0.020   | 100      | 96        | 60-140          | 3.96  | 30        |
| Dichlorodifluoromethane       | 0.010      | 0.010       | 0.020   | 52       | 50        | 10-140          | 2.56  | 30        |
| 1,1-Dichloroethane            | 0.020      | 0.020       | 0.020   | 100      | 98        | 60-140          | 1.32  | 30        |
| 1,2-Dichloroethane (1,2-DCA)  | 0.018      | 0.018       | 0.020   | 90       | 87        | 60-140          | 2.38  | 30        |
| 1,1-Dichloroethene            | 0.021      | 0.020       | 0.020   | 104      | 101       | 60-140          | 3.64  | 30        |
| cis-1,2-Dichloroethene        | 0.019      | 0.019       | 0.020   | 96       | 95        | 60-140          | 0.676 | 30        |
| trans-1,2-Dichloroethene      | 0.020      | 0.020       | 0.020   | 101      | 98        | 60-140          | 2.66  | 30        |
| 1,2-Dichloropropane           | 0.019      | 0.019       | 0.020   | 96       | 94        | 60-140          | 2.32  | 30        |
| 1,3-Dichloropropane           | 0.020      | 0.019       | 0.020   | 102      | 95        | 60-140          | 7.89  | 30        |
| 2,2-Dichloropropane           | 0.022      | 0.022       | 0.020   | 112      | 109       | 60-140          | 2.53  | 30        |
| 1,1-Dichloropropene           | 0.021      | 0.020       | 0.020   | 104      | 102       | 60-140          | 1.49  | 30        |

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/18/2025  
**Date Analyzed:** 07/23/2025  
**Instrument:** GC28  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**BatchID:** 321720  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg  
**Sample ID:** MB/LCS/LCSD-321720

### QC Summary Report for SW8260D

| Analyte                       | LCS<br>Result | LCSD<br>Result | SPK<br>Val | LCS<br>%REC | LCSD<br>%REC | LCS/LCSD<br>Limits | RPD     | RPD<br>Limit |
|-------------------------------|---------------|----------------|------------|-------------|--------------|--------------------|---------|--------------|
| cis-1,3-Dichloropropene       | 0.020         | 0.019          | 0.020      | 100         | 97           | 60-140             | 3.23    | 30           |
| trans-1,3-Dichloropropene     | 0.020         | 0.019          | 0.020      | 101         | 97           | 60-140             | 3.21    | 30           |
| Diisopropyl ether (DIPE)      | 0.019         | 0.018          | 0.020      | 93          | 90           | 60-140             | 2.37    | 30           |
| Ethylbenzene                  | 0.021         | 0.020          | 0.020      | 103         | 100          | 60-140             | 2.34    | 30           |
| Ethyl tert-butyl ether (ETBE) | 0.018         | 0.018          | 0.020      | 91          | 89           | 60-140             | 2.50    | 30           |
| Freon 113                     | 0.018         | 0.017          | 0.020      | 88          | 86           | 50-140             | 1.93    | 30           |
| Hexachlorobutadiene           | 0.024         | 0.023          | 0.020      | 122         | 114          | 60-140             | 6.38    | 30           |
| Hexachloroethane              | 0.023         | 0.022          | 0.020      | 115         | 112          | 60-140             | 2.13    | 30           |
| 2-Hexanone                    | 0.014         | 0.013          | 0.020      | 69          | 63           | 40-140             | 8.86    | 30           |
| Isopropylbenzene              | 0.025         | 0.024          | 0.020      | 123         | 118          | 60-140             | 3.54    | 30           |
| 4-Isopropyl toluene           | 0.025         | 0.024          | 0.020      | 124         | 121          | 60-150             | 2.46    | 30           |
| Methyl-t-butyl ether (MTBE)   | 0.017         | 0.017          | 0.020      | 87          | 85           | 50-140             | 2.38    | 30           |
| Methylene chloride            | 0.022         | 0.021          | 0.020      | 110         | 106          | 60-140             | 3.58    | 30           |
| 4-Methyl-2-pentanone (MIBK)   | 0.016         | 0.017          | 0.020      | 79          | 83           | 50-140             | 4.88    | 30           |
| Naphthalene                   | 0.010         | 0.0081         | 0.020      | 51          | 40           | 30-140             | 22.7    | 30           |
| n-Propyl benzene              | 0.025         | 0.024          | 0.020      | 123         | 122          | 60-140             | 1.14    | 30           |
| Styrene                       | 0.018         | 0.018          | 0.020      | 92          | 91           | 60-140             | 1.82    | 30           |
| 1,1,1,2-Tetrachloroethane     | 0.019         | 0.019          | 0.020      | 97          | 93           | 60-140             | 3.91    | 30           |
| 1,1,2,2-Tetrachloroethane     | 0.016         | 0.016          | 0.020      | 81          | 79           | 40-140             | 2.87    | 30           |
| Tetrachloroethene             | 0.020         | 0.020          | 0.020      | 102         | 99           | 60-140             | 2.72    | 30           |
| Toluene                       | 0.021         | 0.020          | 0.020      | 103         | 100          | 60-140             | 2.69    | 30           |
| 1,2,3-Trichlorobenzene        | 0.015         | 0.0094         | 0.020      | 75          | 47           | 40-140             | 45.5,F2 | 30           |
| 1,2,4-Trichlorobenzene        | 0.018         | 0.014          | 0.020      | 90          | 71           | 50-140             | 23.5    | 30           |
| 1,1,1-Trichloroethane         | 0.020         | 0.020          | 0.020      | 101         | 97           | 60-140             | 3.11    | 30           |
| 1,1,2-Trichloroethane         | 0.019         | 0.018          | 0.020      | 93          | 91           | 60-140             | 2.98    | 30           |
| Trichloroethene               | 0.020         | 0.020          | 0.020      | 101         | 98           | 60-140             | 2.74    | 30           |
| Trichlorofluoromethane        | 0.019         | 0.018          | 0.020      | 94          | 92           | 50-140             | 1.92    | 30           |
| 1,2,3-Trichloropropane        | 0.0093        | 0.0089         | 0.010      | 93          | 89           | 60-130             | 3.37    | 30           |
| 1,2,4-Trimethylbenzene        | 0.023         | 0.022          | 0.020      | 117         | 112          | 30-140             | 4.64    | 30           |
| 1,3,5-Trimethylbenzene        | 0.024         | 0.024          | 0.020      | 121         | 119          | 60-140             | 1.44    | 30           |
| Vinyl Chloride                | 0.0090        | 0.0090         | 0.010      | 90          | 90           | 30-140             | 0.286   | 30           |
| m,p-Xylene                    | 0.041         | 0.040          | 0.040      | 104         | 100          | 60-140             | 3.81    | 30           |
| o-Xylene                      | 0.020         | 0.019          | 0.020      | 99          | 97           | 60-140             | 2.91    | 30           |

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/18/2025  
**Date Analyzed:** 07/23/2025  
**Instrument:** GC28  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**BatchID:** 321720  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260D  
**Unit:** mg/kg  
**Sample ID:** MB/LCS/LCSD-321720

### QC Summary Report for SW8260D

| Analyte                   | LCS<br>Result | LCSD<br>Result | SPK<br>Val | LCS<br>%REC | LCSD<br>%REC | LCS/LCSD<br>Limits | RPD    | RPD<br>Limit |
|---------------------------|---------------|----------------|------------|-------------|--------------|--------------------|--------|--------------|
| <b>Surrogate Recovery</b> |               |                |            |             |              |                    |        |              |
| Dibromofluoromethane      | 0.12          | 0.12           | 0.12       | 98          | 96           | 70-140             | 1.77   | 30           |
| Toluene-d8                | 0.14          | 0.14           | 0.12       | 109         | 108          | 70-140             | 0.458  | 30           |
| 4-BFB                     | 0.013         | 0.013          | 0.012      | 104         | 104          | 70-140             | 0.207  | 30           |
| Benzene-d6                | 0.11          | 0.11           | 0.10       | 107         | 107          | 70-140             | 0.0380 | 30           |
| Ethylbenzene-d10          | 0.12          | 0.12           | 0.10       | 123         | 121          | 70-140             | 1.16   | 30           |
| 1,2-DCB-d4                | 0.078         | 0.079          | 0.10       | 78          | 79           | 70-140             | 0.858  | 30           |



## Quality Control Report

|                       |                             |                           |                    |
|-----------------------|-----------------------------|---------------------------|--------------------|
| <b>Client:</b>        | Langan                      | <b>WorkOrder:</b>         | 2507B37            |
| <b>Date Prepared:</b> | 07/21/2025                  | <b>BatchID:</b>           | 321778             |
| <b>Date Analyzed:</b> | 07/22/2025                  | <b>Extraction Method:</b> | SW3550B/3640A      |
| <b>Instrument:</b>    | GC17                        | <b>Analytical Method:</b> | SW8270E            |
| <b>Matrix:</b>        | Soil                        | <b>Unit:</b>              | mg/Kg              |
| <b>Project:</b>       | 770651908; Northtown Campus | <b>Sample ID:</b>         | MB/LCS/LCSD-321778 |

### QC Summary Report for SW8270E (Low Level) w/ GPC

| Analyte                       | MB Result | MDL     | RL     | SPK Val | MB IS/SS %REC | MB IS/SS Limits |
|-------------------------------|-----------|---------|--------|---------|---------------|-----------------|
| Acenaphthene                  | ND        | 0.00048 | 0.0013 | -       | -             | -               |
| Acenaphthylene                | ND        | 0.00040 | 0.0013 | -       | -             | -               |
| Acetochlor                    | ND        | 0.043   | 0.25   | -       | -             | -               |
| Anthracene                    | ND        | 0.00050 | 0.0013 | -       | -             | -               |
| Benzidine                     | ND        | 0.40    | 1.2    | -       | -             | -               |
| Benzo (a) anthracene          | ND        | 0.0028  | 0.012  | -       | -             | -               |
| Benzo (a) pyrene              | ND        | 0.00086 | 0.0013 | -       | -             | -               |
| Benzo (b) fluoranthene        | ND        | 0.0011  | 0.0025 | -       | -             | -               |
| Benzo (g,h,i) perylene        | ND        | 0.0018  | 0.0025 | -       | -             | -               |
| Benzo (k) fluoranthene        | ND        | 0.0011  | 0.0025 | -       | -             | -               |
| Benzyl Alcohol                | ND        | 0.31    | 1.2    | -       | -             | -               |
| Benzoic Acid                  | ND        | 0.21    | 1.2    | -       | -             | -               |
| 1,1-Biphenyl                  | ND        | 0.0026  | 0.0050 | -       | -             | -               |
| Bis (2-chloroethoxy) Methane  | ND        | 0.062   | 0.25   | -       | -             | -               |
| Bis (2-chloroethyl) Ether     | ND        | 0.00060 | 0.0013 | -       | -             | -               |
| Bis (2-chloroisopropyl) Ether | ND        | 0.00067 | 0.0025 | -       | -             | -               |
| Bis (2-ethylhexyl) Adipate    | ND        | 0.053   | 0.25   | -       | -             | -               |
| Bis (2-ethylhexyl) Phthalate  | ND        | 0.019   | 0.062  | -       | -             | -               |
| 4-Bromophenyl Phenyl Ether    | ND        | 0.045   | 0.25   | -       | -             | -               |
| Butylbenzyl Phthalate         | ND        | 0.0018  | 0.062  | -       | -             | -               |
| 4-Chloro-3-methylphenol       | ND        | 0.043   | 0.25   | -       | -             | -               |
| 4-Chloroaniline               | ND        | 0.00021 | 0.0013 | -       | -             | -               |
| 2-Chloronaphthalene           | ND        | 0.084   | 0.25   | -       | -             | -               |
| 2-Chlorophenol                | ND        | 0.0024  | 0.012  | -       | -             | -               |
| 4-Chlorophenyl Phenyl Ether   | ND        | 0.070   | 0.25   | -       | -             | -               |
| Chrysene                      | ND        | 0.0010  | 0.0013 | -       | -             | -               |
| Dibenzo (a,h) anthracene      | ND        | 0.0023  | 0.0025 | -       | -             | -               |
| Dibenzofuran                  | ND        | 0.00047 | 0.0013 | -       | -             | -               |
| Di-n-butyl Phthalate          | ND        | 0.0098  | 0.062  | -       | -             | -               |
| 1,2-Dichlorobenzene           | ND        | 0.080   | 0.25   | -       | -             | -               |
| 1,3-Dichlorobenzene           | ND        | 0.072   | 0.25   | -       | -             | -               |
| 1,4-Dichlorobenzene           | ND        | 0.075   | 0.25   | -       | -             | -               |
| 3,3-Dichlorobenzidine         | ND        | 0.00098 | 0.0013 | -       | -             | -               |
| 2,4-Dichlorophenol            | ND        | 0.00098 | 0.0025 | -       | -             | -               |
| Diethyl Phthalate             | ND        | 0.0031  | 0.012  | -       | -             | -               |
| 2,4-Dimethylphenol            | ND        | 0.16    | 0.25   | -       | -             | -               |
| Dimethyl Phthalate            | ND        | 0.00031 | 0.0025 | -       | -             | -               |
| 4,6-Dinitro-2-methylphenol    | ND        | 0.75    | 1.2    | -       | -             | -               |

(Cont.)



## Quality Control Report

|                       |                             |                           |                    |
|-----------------------|-----------------------------|---------------------------|--------------------|
| <b>Client:</b>        | Langan                      | <b>WorkOrder:</b>         | 2507B37            |
| <b>Date Prepared:</b> | 07/21/2025                  | <b>BatchID:</b>           | 321778             |
| <b>Date Analyzed:</b> | 07/22/2025                  | <b>Extraction Method:</b> | SW3550B/3640A      |
| <b>Instrument:</b>    | GC17                        | <b>Analytical Method:</b> | SW8270E            |
| <b>Matrix:</b>        | Soil                        | <b>Unit:</b>              | mg/Kg              |
| <b>Project:</b>       | 770651908; Northtown Campus | <b>Sample ID:</b>         | MB/LCS/LCSD-321778 |

### QC Summary Report for SW8270E (Low Level) w/ GPC

| Analyte                         | MB Result | MDL     | RL     | SPK Val | MB IS/SS %REC | MB IS/SS Limits |
|---------------------------------|-----------|---------|--------|---------|---------------|-----------------|
| 2,4-Dinitrophenol               | ND        | 0.037   | 0.25   | -       | -             | -               |
| 2,4-Dinitrotoluene              | ND        | 0.0069  | 0.012  | -       | -             | -               |
| 2,6-Dichlorophenol              | ND        | 0.0026  | 0.012  | -       | -             | -               |
| 2,6-Dinitrotoluene              | ND        | 0.0075  | 0.012  | -       | -             | -               |
| Di-n-octyl Phthalate            | ND        | 0.17    | 0.62   | -       | -             | -               |
| 1,2-Diphenylhydrazine           | ND        | 0.064   | 0.25   | -       | -             | -               |
| Fluoranthene                    | ND        | 0.00050 | 0.0025 | -       | -             | -               |
| Fluorene                        | ND        | 0.00091 | 0.0025 | -       | -             | -               |
| Hexachlorobenzene               | ND        | 0.00048 | 0.0013 | -       | -             | -               |
| Hexachlorobutadiene             | ND        | 0.00074 | 0.0013 | -       | -             | -               |
| Hexachlorocyclopentadiene       | ND        | 0.44    | 1.2    | -       | -             | -               |
| Hexachloroethane                | ND        | 0.00052 | 0.0025 | -       | -             | -               |
| Indeno (1,2,3-cd) pyrene        | ND        | 0.0022  | 0.0025 | -       | -             | -               |
| Isophorone                      | ND        | 0.037   | 0.25   | -       | -             | -               |
| 1-Methylnaphthalene             | ND        | 0.00059 | 0.0013 | -       | -             | -               |
| 2-Methylnaphthalene             | ND        | 0.00054 | 0.0013 | -       | -             | -               |
| 2-Methylphenol (o-Cresol)       | ND        | 0.079   | 0.25   | -       | -             | -               |
| 3 & 4-Methylphenol (m,p-Cresol) | ND        | 0.088   | 0.25   | -       | -             | -               |
| Naphthalene                     | ND        | 0.00038 | 0.0025 | -       | -             | -               |
| 2-Nitroaniline                  | ND        | 0.38    | 1.2    | -       | -             | -               |
| 3-Nitroaniline                  | ND        | 0.55    | 1.2    | -       | -             | -               |
| 4-Nitroaniline                  | ND        | 0.34    | 1.2    | -       | -             | -               |
| Nitrobenzene                    | ND        | 0.083   | 0.25   | -       | -             | -               |
| 2-Nitrophenol                   | ND        | 0.68    | 1.2    | -       | -             | -               |
| 4-Nitrophenol                   | ND        | 0.62    | 1.2    | -       | -             | -               |
| N-Nitrosodimethylamine          | ND        | 0.064   | 0.25   | -       | -             | -               |
| N-Nitrosodi-n-propylamine       | ND        | 0.057   | 0.25   | -       | -             | -               |
| N-Nitrosodiphenylamine          | ND        | 0.085   | 0.25   | -       | -             | -               |
| Pentachlorophenol               | ND        | 0.0061  | 0.062  | -       | -             | -               |
| Phenanthrene                    | ND        | 0.00042 | 0.0013 | -       | -             | -               |
| Phenol                          | ND        | 0.0072  | 0.010  | -       | -             | -               |
| Pyrene                          | ND        | 0.00041 | 0.0013 | -       | -             | -               |
| Pyridine                        | ND        | 0.11    | 0.25   | -       | -             | -               |
| 2,3,4,6-Tetrachlorophenol       | ND        | 0.18    | 0.25   | -       | -             | -               |
| 1,2,4-Trichlorobenzene          | ND        | 0.049   | 0.25   | -       | -             | -               |
| 2,4,5-Trichlorophenol           | ND        | 0.0015  | 0.0025 | -       | -             | -               |
| 2,4,6-Trichlorophenol           | ND        | 0.0012  | 0.0025 | -       | -             | -               |

(Cont.)



## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/21/2025  
**Date Analyzed:** 07/22/2025  
**Instrument:** GC17  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**BatchID:** 321778  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS/LCSD-321778

### QC Summary Report for SW8270E (Low Level) w/ GPC

| Analyte                   | MB<br>Result | MDL | RL | SPK<br>Val | MB IS/SS<br>%REC | MB IS/SS<br>Limits |
|---------------------------|--------------|-----|----|------------|------------------|--------------------|
| <b>Surrogate Recovery</b> |              |     |    |            |                  |                    |
| 2-Fluorophenol            | 0.96         |     |    | 1.25       | 77               | 60-130             |
| Phenol-d5                 | 0.88         |     |    | 1.25       | 71               | 60-130             |
| Nitrobenzene-d5           | 0.92         |     |    | 1.25       | 74               | 60-130             |
| 2-Fluorobiphenyl          | 0.97         |     |    | 1.25       | 77               | 60-130             |
| 2,4,6-Tribromophenol      | 0.65         |     |    | 1.25       | 52               | 50-130             |
| 4-Terphenyl-d14           | 1.0          |     |    | 1.25       | 80               | 50-130             |

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## Quality Control Report

|                       |                             |                           |                    |
|-----------------------|-----------------------------|---------------------------|--------------------|
| <b>Client:</b>        | Langan                      | <b>WorkOrder:</b>         | 2507B37            |
| <b>Date Prepared:</b> | 07/21/2025                  | <b>BatchID:</b>           | 321778             |
| <b>Date Analyzed:</b> | 07/22/2025                  | <b>Extraction Method:</b> | SW3550B/3640A      |
| <b>Instrument:</b>    | GC17                        | <b>Analytical Method:</b> | SW8270E            |
| <b>Matrix:</b>        | Soil                        | <b>Unit:</b>              | mg/Kg              |
| <b>Project:</b>       | 770651908; Northtown Campus | <b>Sample ID:</b>         | MB/LCS/LCSD-321778 |

### QC Summary Report for SW8270E (Low Level) w/ GPC

| Analyte                       | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD   | RPD Limit |
|-------------------------------|------------|-------------|---------|----------|-----------|-----------------|-------|-----------|
| Acenaphthene                  | 0.047      | 0.048       | 0.062   | 76       | 76        | 60-130          | 0.614 | 30        |
| Acenaphthylene                | 0.041      | 0.042       | 0.062   | 65       | 67        | 60-130          | 2.41  | 30        |
| Acetochlor                    | 0.88       | 0.91        | 1.25    | 70       | 73        | 60-130          | 3.93  | 30        |
| Anthracene                    | 0.041      | 0.042       | 0.062   | 66       | 67        | 60-130          | 2.26  | 30        |
| Benzidine                     | 1.5        | 1.5         | 6.25    | 24,F2    | 24,F2     | 30-130          | 3.48  | 30        |
| Benzo (a) anthracene          | 0.049      | 0.050       | 0.062   | 79       | 80        | 60-130          | 1.37  | 30        |
| Benzo (a) pyrene              | 0.052      | 0.054       | 0.062   | 83       | 86        | 60-130          | 3.76  | 30        |
| Benzo (b) fluoranthene        | 0.060      | 0.058       | 0.062   | 96       | 92        | 40-130          | 3.77  | 30        |
| Benzo (g,h,i) perylene        | 0.050      | 0.053       | 0.062   | 81       | 84        | 60-130          | 4.71  | 30        |
| Benzo (k) fluoranthene        | 0.062      | 0.065       | 0.062   | 100      | 105       | 60-130          | 4.79  | 30        |
| Benzyl Alcohol                | 4.8        | 4.9         | 6.25    | 76       | 78        | 60-130          | 2.83  | 30        |
| Benzoic Acid                  | 2.6        | 2.7         | 6.25    | 42       | 43        | 15-130          | 3.91  | 30        |
| 1,1-Biphenyl                  | 0.10       | 0.10        | 0.12    | 80       | 82        | 60-130          | 2.37  | 30        |
| Bis (2-chloroethoxy) Methane  | 1.0        | 0.99        | 1.25    | 81       | 79        | 60-130          | 2.22  | 30        |
| Bis (2-chloroethyl) Ether     | 0.045      | 0.047       | 0.062   | 72       | 75        | 60-130          | 3.93  | 30        |
| Bis (2-chloroisopropyl) Ether | 0.052      | 0.047       | 0.062   | 83       | 75        | 60-130          | 9.40  | 30        |
| Bis (2-ethylhexyl) Adipate    | 0.93       | 0.96        | 1.25    | 75       | 77        | 40-130          | 2.97  | 30        |
| Bis (2-ethylhexyl) Phthalate  | 0.034      | 0.037       | 0.062   | 55,F2    | 60        | 60-130          | 7.62  | 30        |
| 4-Bromophenyl Phenyl Ether    | 0.88       | 0.89        | 1.25    | 70       | 71        | 60-130          | 1.62  | 30        |
| Butylbenzyl Phthalate         | 0.038      | 0.042       | 0.062   | 60       | 67        | 60-130          | 10.3  | 30        |
| 4-Chloro-3-methylphenol       | 0.99       | 1.0         | 1.25    | 79       | 81        | 60-130          | 1.44  | 30        |
| 4-Chloroaniline               | 0.039      | 0.040       | 0.062   | 62       | 64        | 40-130          | 2.96  | 30        |
| 2-Chloronaphthalene           | 1.0        | 1.0         | 1.25    | 81       | 83        | 60-130          | 2.58  | 30        |
| 2-Chlorophenol                | 0.041      | 0.045       | 0.062   | 66       | 72        | 60-130          | 8.18  | 30        |
| 4-Chlorophenyl Phenyl Ether   | 0.95       | 0.96        | 1.25    | 76       | 77        | 60-130          | 1.07  | 30        |
| Chrysene                      | 0.050      | 0.051       | 0.062   | 80       | 81        | 60-130          | 1.31  | 30        |
| Dibenzo (a,h) anthracene      | 0.053      | 0.054       | 0.062   | 84       | 86        | 60-130          | 2.00  | 30        |
| Dibenzofuran                  | 0.044      | 0.044       | 0.062   | 71       | 71        | 60-130          | 0.109 | 30        |
| Di-n-butyl Phthalate          | 0.046      | 0.049       | 0.062   | 74       | 79        | 60-130          | 6.92  | 30        |
| 1,2-Dichlorobenzene           | 0.93       | 0.97        | 1.25    | 74       | 77        | 60-130          | 3.80  | 30        |
| 1,3-Dichlorobenzene           | 0.94       | 0.94        | 1.25    | 75       | 75        | 60-130          | 0.226 | 30        |
| 1,4-Dichlorobenzene           | 0.93       | 0.95        | 1.25    | 75       | 76        | 60-130          | 1.29  | 30        |
| 3,3-Dichlorobenzidine         | 0.031      | 0.034       | 0.062   | 49       | 55        | 40-130          | 10.8  | 30        |
| 2,4-Dichlorophenol            | 0.045      | 0.046       | 0.062   | 72       | 74        | 60-130          | 2.17  | 30        |
| Diethyl Phthalate             | 0.049      | 0.050       | 0.062   | 79       | 81        | 60-130          | 2.47  | 30        |
| 2,4-Dimethylphenol            | 0.99       | 1.0         | 1.25    | 79       | 80        | 60-130          | 1.15  | 30        |
| Dimethyl Phthalate            | 0.044      | 0.044       | 0.062   | 70       | 70        | 60-130          | 0.586 | 30        |
| 4,6-Dinitro-2-methylphenol    | 4.7        | 5.1         | 6.25    | 75       | 82        | 30-130          | 8.61  | 30        |

(Cont.)



## Quality Control Report

|                       |                             |                           |                    |
|-----------------------|-----------------------------|---------------------------|--------------------|
| <b>Client:</b>        | Langan                      | <b>WorkOrder:</b>         | 2507B37            |
| <b>Date Prepared:</b> | 07/21/2025                  | <b>BatchID:</b>           | 321778             |
| <b>Date Analyzed:</b> | 07/22/2025                  | <b>Extraction Method:</b> | SW3550B/3640A      |
| <b>Instrument:</b>    | GC17                        | <b>Analytical Method:</b> | SW8270E            |
| <b>Matrix:</b>        | Soil                        | <b>Unit:</b>              | mg/Kg              |
| <b>Project:</b>       | 770651908; Northtown Campus | <b>Sample ID:</b>         | MB/LCS/LCSD-321778 |

### QC Summary Report for SW8270E (Low Level) w/ GPC

| Analyte                         | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD    | RPD Limit |
|---------------------------------|------------|-------------|---------|----------|-----------|-----------------|--------|-----------|
| 2,4-Dinitrophenol               | 0.80       | 0.90        | 1.25    | 64       | 72        | 15-130          | 12.8   | 30        |
| 2,4-Dinitrotoluene              | 0.051      | 0.053       | 0.062   | 81       | 85        | 60-130          | 4.84   | 30        |
| 2,6-Dichlorophenol              | 0.045      | 0.046       | 0.062   | 72       | 74        | 60-130          | 2.80   | 30        |
| 2,6-Dinitrotoluene              | 0.042      | 0.044       | 0.062   | 68       | 71        | 60-130          | 4.62   | 30        |
| Di-n-octyl Phthalate            | 1.2        | 1.2         | 1.25    | 95       | 99        | 60-130          | 3.81   | 30        |
| 1,2-Diphenylhydrazine           | 0.96       | 0.99        | 1.25    | 77       | 79        | 60-130          | 2.93   | 30        |
| Fluoranthene                    | 0.042      | 0.044       | 0.062   | 67       | 71        | 60-130          | 5.73   | 30        |
| Fluorene                        | 0.052      | 0.053       | 0.062   | 83       | 86        | 60-130          | 2.38   | 30        |
| Hexachlorobenzene               | 0.048      | 0.048       | 0.062   | 78       | 77        | 60-130          | 1.11   | 30        |
| Hexachlorobutadiene             | 0.050      | 0.050       | 0.062   | 81       | 79        | 60-130          | 1.66   | 30        |
| Hexachlorocyclopentadiene       | 4.4        | 4.5         | 6.25    | 71       | 73        | 40-130          | 2.88   | 30        |
| Hexachloroethane                | 0.046      | 0.047       | 0.062   | 73       | 75        | 60-130          | 2.39   | 30        |
| Indeno (1,2,3-cd) pyrene        | 0.052      | 0.054       | 0.062   | 84       | 87        | 60-130          | 3.84   | 30        |
| Isophorone                      | 0.92       | 0.93        | 1.25    | 74       | 75        | 60-130          | 1.58   | 30        |
| 1-Methylnaphthalene             | 0.046      | 0.046       | 0.062   | 74       | 74        | 60-130          | 0.0658 | 30        |
| 2-Methylnaphthalene             | 0.047      | 0.047       | 0.062   | 75       | 75        | 60-130          | 0.324  | 30        |
| 2-Methylphenol (o-Cresol)       | 0.93       | 0.94        | 1.25    | 74       | 75        | 60-130          | 1.24   | 30        |
| 3 & 4-Methylphenol (m,p-Cresol) | 0.94       | 0.95        | 1.25    | 75       | 76        | 60-130          | 0.981  | 30        |
| Naphthalene                     | 0.050      | 0.051       | 0.062   | 80       | 81        | 60-130          | 1.23   | 30        |
| 2-Nitroaniline                  | 5.2        | 5.3         | 6.25    | 83       | 84        | 60-130          | 0.986  | 30        |
| 3-Nitroaniline                  | 5.2        | 5.3         | 6.25    | 84       | 85        | 30-130          | 1.21   | 30        |
| 4-Nitroaniline                  | 5.6        | 5.7         | 6.25    | 89       | 92        | 60-130          | 2.83   | 30        |
| Nitrobenzene                    | 1.0        | 1.0         | 1.25    | 82       | 84        | 60-130          | 2.73   | 30        |
| 2-Nitrophenol                   | 5.1        | 5.4         | 6.25    | 82       | 86        | 60-130          | 4.63   | 30        |
| 4-Nitrophenol                   | 4.3        | 4.5         | 6.25    | 69       | 72        | 60-130          | 3.75   | 30        |
| N-Nitrosodimethylamine          | 0.93       | 1.0         | 1.25    | 74       | 80        | 60-130          | 7.53   | 30        |
| N-Nitrosodi-n-propylamine       | 0.83       | 0.85        | 1.25    | 67       | 68        | 60-130          | 2.65   | 30        |
| N-Nitrosodiphenylamine          | 0.93       | 0.91        | 1.25    | 74       | 73        | 60-130          | 1.43   | 30        |
| Pentachlorophenol               | 0.23       | 0.24        | 0.31    | 73       | 76        | 40-130          | 3.37   | 30        |
| Phenanthrene                    | 0.044      | 0.045       | 0.062   | 71       | 72        | 60-130          | 2.05   | 30        |
| Phenol                          | 0.18       | 0.18        | 0.25    | 71       | 74        | 60-130          | 3.75   | 30        |
| Pyrene                          | 0.049      | 0.049       | 0.062   | 78       | 78        | 60-130          | 0.0417 | 30        |
| Pyridine                        | 0.61       | 0.65        | 1.25    | 49       | 52        | 30-130          | 5.76   | 30        |
| 2,3,4,6-Tetrachlorophenol       | 1.0        | 1.2         | 1.25    | 83       | 96        | 60-130          | 14.8   | 30        |
| 1,2,4-Trichlorobenzene          | 1.0        | 1.0         | 1.25    | 82       | 81        | 60-130          | 0.245  | 30        |
| 2,4,5-Trichlorophenol           | 0.042      | 0.044       | 0.062   | 68       | 71        | 60-130          | 4.51   | 30        |
| 2,4,6-Trichlorophenol           | 0.041      | 0.042       | 0.062   | 65       | 68        | 60-130          | 3.86   | 30        |

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/21/2025  
**Date Analyzed:** 07/22/2025  
**Instrument:** GC17  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**BatchID:** 321778  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS/LCSD-321778

### QC Summary Report for SW8270E (Low Level) w/ GPC

| Analyte                   | LCS<br>Result | LCSD<br>Result | SPK<br>Val | LCS<br>%REC | LCSD<br>%REC | LCS/LCSD<br>Limits | RPD   | RPD<br>Limit |
|---------------------------|---------------|----------------|------------|-------------|--------------|--------------------|-------|--------------|
| <b>Surrogate Recovery</b> |               |                |            |             |              |                    |       |              |
| 2-Fluorophenol            | 0.91          | 0.95           | 1.25       | 73          | 76           | 60-130             | 4.03  | 30           |
| Phenol-d5                 | 0.90          | 0.92           | 1.25       | 72          | 74           | 60-130             | 2.55  | 30           |
| Nitrobenzene-d5           | 0.96          | 1.0            | 1.25       | 77          | 81           | 60-130             | 5.44  | 30           |
| 2-Fluorobiphenyl          | 0.93          | 0.93           | 1.25       | 74          | 75           | 60-130             | 0.340 | 30           |
| 2,4,6-Tribromophenol      | 0.96          | 0.99           | 5          | 19,F3       | 20,F3        | 50-130             | 3.43  | 30           |
| 4-Terphenyl-d14           | 0.98          | 0.97           | 1.25       | 79          | 78           | 50-130             | 1.37  | 30           |



## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/22/2025  
**Date Analyzed:** 07/22/2025 - 07/24/2025  
**Instrument:** GC17, GC21  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**BatchID:** 321880  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS/LCSD-321880

### QC Summary Report for SW8270E (Low Level) w/ GPC

| Analyte                       | MB Result | MDL     | RL     | SPK Val | MB IS/SS %REC | MB IS/SS Limits |
|-------------------------------|-----------|---------|--------|---------|---------------|-----------------|
| Acenaphthene                  | ND        | 0.00048 | 0.0013 | -       | -             | -               |
| Acenaphthylene                | ND        | 0.00040 | 0.0013 | -       | -             | -               |
| Acetochlor                    | ND        | 0.043   | 0.25   | -       | -             | -               |
| Anthracene                    | ND        | 0.00050 | 0.0013 | -       | -             | -               |
| Benzidine                     | ND        | 0.40    | 1.2    | -       | -             | -               |
| Benzo (a) anthracene          | ND        | 0.0028  | 0.012  | -       | -             | -               |
| Benzo (a) pyrene              | ND        | 0.00086 | 0.0013 | -       | -             | -               |
| Benzo (b) fluoranthene        | ND        | 0.0011  | 0.0025 | -       | -             | -               |
| Benzo (g,h,i) perylene        | ND        | 0.0018  | 0.0025 | -       | -             | -               |
| Benzo (k) fluoranthene        | ND        | 0.0011  | 0.0025 | -       | -             | -               |
| Benzyl Alcohol                | ND        | 0.31    | 1.2    | -       | -             | -               |
| Benzoic Acid                  | ND        | 0.21    | 1.2    | -       | -             | -               |
| 1,1-Biphenyl                  | ND        | 0.0026  | 0.0050 | -       | -             | -               |
| Bis (2-chloroethoxy) Methane  | ND        | 0.062   | 0.25   | -       | -             | -               |
| Bis (2-chloroethyl) Ether     | ND        | 0.00060 | 0.0013 | -       | -             | -               |
| Bis (2-chloroisopropyl) Ether | ND        | 0.00067 | 0.0025 | -       | -             | -               |
| Bis (2-ethylhexyl) Adipate    | ND        | 0.053   | 0.25   | -       | -             | -               |
| Bis (2-ethylhexyl) Phthalate  | ND        | 0.019   | 0.062  | -       | -             | -               |
| 4-Bromophenyl Phenyl Ether    | ND        | 0.045   | 0.25   | -       | -             | -               |
| Butylbenzyl Phthalate         | ND        | 0.0018  | 0.062  | -       | -             | -               |
| 4-Chloro-3-methylphenol       | ND        | 0.043   | 0.25   | -       | -             | -               |
| 4-Chloroaniline               | ND        | 0.00021 | 0.0013 | -       | -             | -               |
| 2-Chloronaphthalene           | ND        | 0.084   | 0.25   | -       | -             | -               |
| 2-Chlorophenol                | ND        | 0.0024  | 0.012  | -       | -             | -               |
| 4-Chlorophenyl Phenyl Ether   | ND        | 0.070   | 0.25   | -       | -             | -               |
| Chrysene                      | ND        | 0.0010  | 0.0013 | -       | -             | -               |
| Dibenzo (a,h) anthracene      | ND        | 0.0023  | 0.0025 | -       | -             | -               |
| Dibenzofuran                  | ND        | 0.00047 | 0.0013 | -       | -             | -               |
| Di-n-butyl Phthalate          | ND        | 0.0098  | 0.062  | -       | -             | -               |
| 1,2-Dichlorobenzene           | ND        | 0.080   | 0.25   | -       | -             | -               |
| 1,3-Dichlorobenzene           | ND        | 0.072   | 0.25   | -       | -             | -               |
| 1,4-Dichlorobenzene           | ND        | 0.075   | 0.25   | -       | -             | -               |
| 3,3-Dichlorobenzidine         | ND        | 0.00098 | 0.0013 | -       | -             | -               |
| 2,4-Dichlorophenol            | ND        | 0.00098 | 0.0025 | -       | -             | -               |
| Diethyl Phthalate             | ND        | 0.0031  | 0.012  | -       | -             | -               |
| 2,4-Dimethylphenol            | ND        | 0.16    | 0.25   | -       | -             | -               |
| Dimethyl Phthalate            | ND        | 0.00031 | 0.0025 | -       | -             | -               |
| 4,6-Dinitro-2-methylphenol    | ND        | 0.75    | 1.2    | -       | -             | -               |

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/22/2025  
**Date Analyzed:** 07/22/2025 - 07/24/2025  
**Instrument:** GC17, GC21  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**BatchID:** 321880  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS/LCSD-321880

### QC Summary Report for SW8270E (Low Level) w/ GPC

| Analyte                         | MB Result | MDL     | RL     | SPK Val | MB IS/SS %REC | MB IS/SS Limits |
|---------------------------------|-----------|---------|--------|---------|---------------|-----------------|
| 2,4-Dinitrophenol               | ND        | 0.037   | 0.25   | -       | -             | -               |
| 2,4-Dinitrotoluene              | ND        | 0.0069  | 0.012  | -       | -             | -               |
| 2,6-Dichlorophenol              | ND        | 0.0026  | 0.012  | -       | -             | -               |
| 2,6-Dinitrotoluene              | ND        | 0.0075  | 0.012  | -       | -             | -               |
| Di-n-octyl Phthalate            | ND        | 0.17    | 0.62   | -       | -             | -               |
| 1,2-Diphenylhydrazine           | ND        | 0.064   | 0.25   | -       | -             | -               |
| Fluoranthene                    | ND        | 0.00050 | 0.0025 | -       | -             | -               |
| Fluorene                        | ND        | 0.00091 | 0.0025 | -       | -             | -               |
| Hexachlorobenzene               | ND        | 0.00048 | 0.0013 | -       | -             | -               |
| Hexachlorobutadiene             | ND        | 0.00074 | 0.0013 | -       | -             | -               |
| Hexachlorocyclopentadiene       | ND        | 0.44    | 1.2    | -       | -             | -               |
| Hexachloroethane                | ND        | 0.00052 | 0.0025 | -       | -             | -               |
| Indeno (1,2,3-cd) pyrene        | ND        | 0.0022  | 0.0025 | -       | -             | -               |
| Isophorone                      | ND        | 0.037   | 0.25   | -       | -             | -               |
| 1-Methylnaphthalene             | ND        | 0.00059 | 0.0013 | -       | -             | -               |
| 2-Methylnaphthalene             | ND        | 0.00054 | 0.0013 | -       | -             | -               |
| 2-Methylphenol (o-Cresol)       | ND        | 0.079   | 0.25   | -       | -             | -               |
| 3 & 4-Methylphenol (m,p-Cresol) | ND        | 0.088   | 0.25   | -       | -             | -               |
| Naphthalene                     | ND        | 0.00038 | 0.0025 | -       | -             | -               |
| 2-Nitroaniline                  | ND        | 0.38    | 1.2    | -       | -             | -               |
| 3-Nitroaniline                  | ND        | 0.55    | 1.2    | -       | -             | -               |
| 4-Nitroaniline                  | ND        | 0.34    | 1.2    | -       | -             | -               |
| Nitrobenzene                    | ND        | 0.083   | 0.25   | -       | -             | -               |
| 2-Nitrophenol                   | ND        | 0.68    | 1.2    | -       | -             | -               |
| 4-Nitrophenol                   | ND        | 0.62    | 1.2    | -       | -             | -               |
| N-Nitrosodimethylamine          | ND        | 0.064   | 0.25   | -       | -             | -               |
| N-Nitrosodi-n-propylamine       | ND        | 0.057   | 0.25   | -       | -             | -               |
| N-Nitrosodiphenylamine          | ND        | 0.085   | 0.25   | -       | -             | -               |
| Pentachlorophenol               | ND        | 0.0061  | 0.062  | -       | -             | -               |
| Phenanthrene                    | ND        | 0.00042 | 0.0013 | -       | -             | -               |
| Phenol                          | ND        | 0.0072  | 0.010  | -       | -             | -               |
| Pyrene                          | ND        | 0.00041 | 0.0013 | -       | -             | -               |
| Pyridine                        | ND        | 0.11    | 0.25   | -       | -             | -               |
| 2,3,4,6-Tetrachlorophenol       | ND        | 0.18    | 0.25   | -       | -             | -               |
| 1,2,4-Trichlorobenzene          | ND        | 0.049   | 0.25   | -       | -             | -               |
| 2,4,5-Trichlorophenol           | ND        | 0.0015  | 0.0025 | -       | -             | -               |
| 2,4,6-Trichlorophenol           | ND        | 0.0012  | 0.0025 | -       | -             | -               |

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/22/2025  
**Date Analyzed:** 07/22/2025 - 07/24/2025  
**Instrument:** GC17, GC21  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**BatchID:** 321880  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS/LCSD-321880

### QC Summary Report for SW8270E (Low Level) w/ GPC

| Analyte                   | MB<br>Result | MDL | RL | SPK<br>Val | MB IS/SS<br>%REC | MB IS/SS<br>Limits |
|---------------------------|--------------|-----|----|------------|------------------|--------------------|
| <b>Surrogate Recovery</b> |              |     |    |            |                  |                    |
| 2-Fluorophenol            | 0.87         |     |    | 1.25       | 70               | 60-130             |
| Phenol-d5                 | 0.84         |     |    | 1.25       | 67               | 60-130             |
| Nitrobenzene-d5           | 0.86         |     |    | 1.25       | 68               | 60-130             |
| 2-Fluorobiphenyl          | 0.84         |     |    | 1.25       | 68               | 60-130             |
| 2,4,6-Tribromophenol      | 0.55         |     |    | 1.25       | 44,F3            | 50-130             |
| 4-Terphenyl-d14           | 0.87         |     |    | 1.25       | 69               | 50-130             |



## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/22/2025  
**Date Analyzed:** 07/22/2025 - 07/24/2025  
**Instrument:** GC17, GC21  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**BatchID:** 321880  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS/LCSD-321880

### QC Summary Report for SW8270E (Low Level) w/ GPC

| Analyte                       | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD     | RPD Limit |
|-------------------------------|------------|-------------|---------|----------|-----------|-----------------|---------|-----------|
| Acenaphthene                  | 0.048      | 0.049       | 0.062   | 76       | 78        | 60-130          | 1.99    | 30        |
| Acenaphthylene                | 0.043      | 0.044       | 0.062   | 68       | 70        | 60-130          | 2.41    | 30        |
| Acetochlor                    | 0.96       | 0.99        | 1.25    | 77       | 79        | 60-130          | 3.62    | 30        |
| Anthracene                    | 0.042      | 0.043       | 0.062   | 68       | 69        | 60-130          | 2.18    | 30        |
| Benzidine                     | 1.4        | 0.94        | 6.25    | 23,F5    | 15,F5     | 30-130          | 39.6,F2 | 30        |
| Benzo (a) anthracene          | 0.050      | 0.052       | 0.062   | 80       | 83        | 60-130          | 3.94    | 30        |
| Benzo (a) pyrene              | 0.053      | 0.055       | 0.062   | 85       | 88        | 60-130          | 3.55    | 30        |
| Benzo (b) fluoranthene        | 0.060      | 0.058       | 0.062   | 97       | 93        | 40-130          | 4.02    | 30        |
| Benzo (g,h,i) perylene        | 0.052      | 0.054       | 0.062   | 83       | 87        | 60-130          | 4.36    | 30        |
| Benzo (k) fluoranthene        | 0.060      | 0.068       | 0.062   | 96       | 108       | 60-130          | 12.3    | 30        |
| Benzyl Alcohol                | 4.9        | 5.1         | 6.25    | 79       | 82        | 60-130          | 3.65    | 30        |
| Benzoic Acid                  | 1.2        | 1.2         | 6.25    | 19       | 20        | 15-130          | 4.06    | 30        |
| 1,1-Biphenyl                  | 0.098      | 0.10        | 0.12    | 78       | 83        | 60-130          | 5.70    | 30        |
| Bis (2-chloroethoxy) Methane  | 0.97       | 1.0         | 1.25    | 77       | 81        | 60-130          | 4.97    | 30        |
| Bis (2-chloroethyl) Ether     | 0.047      | 0.047       | 0.062   | 75       | 75        | 60-130          | 0.189   | 30        |
| Bis (2-chloroisopropyl) Ether | 0.047      | 0.047       | 0.062   | 75       | 75        | 60-130          | 0.328   | 30        |
| Bis (2-ethylhexyl) Adipate    | 0.90       | 0.69        | 1.25    | 72       | 56        | 40-130          | 26.2    | 30        |
| Bis (2-ethylhexyl) Phthalate  | 0.037      | 0.032       | 0.062   | 59,F5    | 51,F5     | 60-130          | 13.9    | 30        |
| 4-Bromophenyl Phenyl Ether    | 0.87       | 0.87        | 1.25    | 70       | 70        | 60-130          | 0.0172  | 30        |
| Butylbenzyl Phthalate         | 0.039      | 0.041       | 0.062   | 62       | 66        | 60-130          | 6.10    | 30        |
| 4-Chloro-3-methylphenol       | 1.0        | 1.1         | 1.25    | 80       | 86        | 60-130          | 7.14    | 30        |
| 4-Chloroaniline               | 0.039      | 0.033       | 0.062   | 63       | 54        | 40-130          | 16.0    | 30        |
| 2-Chloronaphthalene           | 1.0        | 1.0         | 1.25    | 82       | 83        | 60-130          | 1.14    | 30        |
| 2-Chlorophenol                | 0.046      | 0.046       | 0.062   | 73       | 74        | 60-130          | 0.526   | 30        |
| 4-Chlorophenyl Phenyl Ether   | 0.98       | 1.0         | 1.25    | 78       | 81        | 60-130          | 3.89    | 30        |
| Chrysene                      | 0.056      | 0.053       | 0.062   | 90       | 84        | 60-130          | 6.08    | 30        |
| Dibenzo (a,h) anthracene      | 0.053      | 0.056       | 0.062   | 85       | 89        | 60-130          | 5.15    | 30        |
| Dibenzofuran                  | 0.045      | 0.046       | 0.062   | 72       | 74        | 60-130          | 2.41    | 30        |
| Di-n-butyl Phthalate          | 0.041      | 0.042       | 0.062   | 65       | 67        | 60-130          | 2.27    | 30        |
| 1,2-Dichlorobenzene           | 0.96       | 0.95        | 1.25    | 77       | 76        | 60-130          | 1.72    | 30        |
| 1,3-Dichlorobenzene           | 0.95       | 0.93        | 1.25    | 76       | 75        | 60-130          | 1.75    | 30        |
| 1,4-Dichlorobenzene           | 0.94       | 0.95        | 1.25    | 75       | 76        | 60-130          | 0.933   | 30        |
| 3,3-Dichlorobenzidine         | 0.033      | 0.030       | 0.062   | 53       | 48        | 40-130          | 9.63    | 30        |
| 2,4-Dichlorophenol            | 0.043      | 0.045       | 0.062   | 69       | 72        | 60-130          | 4.29    | 30        |
| Diethyl Phthalate             | 0.051      | 0.054       | 0.062   | 81       | 87        | 60-130          | 6.22    | 30        |
| 2,4-Dimethylphenol            | 1.0        | 1.1         | 1.25    | 80       | 84        | 60-130          | 5.49    | 30        |
| Dimethyl Phthalate            | 0.045      | 0.048       | 0.062   | 73       | 77        | 60-130          | 5.28    | 30        |
| 4,6-Dinitro-2-methylphenol    | 4.1        | 4.2         | 6.25    | 66       | 67        | 30-130          | 1.88    | 30        |

(Cont.)



## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/22/2025  
**Date Analyzed:** 07/22/2025 - 07/24/2025  
**Instrument:** GC17, GC21  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**BatchID:** 321880  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS/LCSD-321880

### QC Summary Report for SW8270E (Low Level) w/ GPC

| Analyte                         | LCS<br>Result | LCSD<br>Result | SPK<br>Val | LCS<br>%REC | LCSD<br>%REC | LCS/LCSD<br>Limits | RPD   | RPD<br>Limit |
|---------------------------------|---------------|----------------|------------|-------------|--------------|--------------------|-------|--------------|
| 2,4-Dinitrophenol               | 0.39          | 0.42           | 1.25       | 31          | 34           | 15-130             | 7.62  | 30           |
| 2,4-Dinitrotoluene              | 0.053         | 0.057          | 0.062      | 85          | 92           | 60-130             | 7.37  | 30           |
| 2,6-Dichlorophenol              | 0.044         | 0.046          | 0.062      | 71          | 74           | 60-130             | 4.14  | 30           |
| 2,6-Dinitrotoluene              | 0.047         | 0.048          | 0.062      | 74          | 77           | 60-130             | 3.41  | 30           |
| Di-n-octyl Phthalate            | 1.2           | 1.0            | 1.25       | 95          | 80           | 60-130             | 16.3  | 30           |
| 1,2-Diphenylhydrazine           | 0.96          | 0.96           | 1.25       | 77          | 77           | 60-130             | 0.164 | 30           |
| Fluoranthene                    | 0.044         | 0.045          | 0.062      | 71          | 72           | 60-130             | 1.98  | 30           |
| Fluorene                        | 0.053         | 0.055          | 0.062      | 85          | 89           | 60-130             | 4.62  | 30           |
| Hexachlorobenzene               | 0.047         | 0.047          | 0.062      | 74          | 75           | 60-130             | 1.06  | 30           |
| Hexachlorobutadiene             | 0.048         | 0.049          | 0.062      | 77          | 78           | 60-130             | 1.30  | 30           |
| Hexachlorocyclopentadiene       | 4.3           | 4.3            | 6.25       | 69          | 69           | 40-130             | 0.909 | 30           |
| Hexachloroethane                | 0.047         | 0.047          | 0.062      | 76          | 75           | 60-130             | 1.07  | 30           |
| Indeno (1,2,3-cd) pyrene        | 0.053         | 0.056          | 0.062      | 85          | 89           | 60-130             | 5.09  | 30           |
| Isophorone                      | 0.92          | 0.94           | 1.25       | 74          | 75           | 60-130             | 1.47  | 30           |
| 1-Methylnaphthalene             | 0.047         | 0.048          | 0.062      | 74          | 77           | 60-130             | 3.79  | 30           |
| 2-Methylnaphthalene             | 0.047         | 0.049          | 0.062      | 75          | 78           | 60-130             | 3.71  | 30           |
| 2-Methylphenol (o-Cresol)       | 1.0           | 0.99           | 1.25       | 80          | 79           | 60-130             | 0.792 | 30           |
| 3 & 4-Methylphenol (m,p-Cresol) | 0.98          | 1.0            | 1.25       | 78          | 81           | 60-130             | 3.53  | 30           |
| Naphthalene                     | 0.050         | 0.051          | 0.062      | 79          | 82           | 60-130             | 2.95  | 30           |
| 2-Nitroaniline                  | 5.3           | 5.5            | 6.25       | 84          | 89           | 60-130             | 4.89  | 30           |
| 3-Nitroaniline                  | 5.4           | 5.1            | 6.25       | 86          | 82           | 30-130             | 4.59  | 30           |
| 4-Nitroaniline                  | 5.8           | 6.0            | 6.25       | 92          | 97           | 60-130             | 4.42  | 30           |
| Nitrobenzene                    | 1.0           | 1.1            | 1.25       | 82          | 86           | 60-130             | 4.80  | 30           |
| 2-Nitrophenol                   | 5.3           | 5.5            | 6.25       | 85          | 88           | 60-130             | 3.02  | 30           |
| 4-Nitrophenol                   | 4.2           | 4.6            | 6.25       | 68          | 73           | 60-130             | 7.08  | 30           |
| N-Nitrosodimethylamine          | 0.94          | 0.96           | 1.25       | 75          | 76           | 60-130             | 1.30  | 30           |
| N-Nitrosodi-n-propylamine       | 0.90          | 0.87           | 1.25       | 72          | 69           | 60-130             | 3.59  | 30           |
| N-Nitrosodiphenylamine          | 0.92          | 0.92           | 1.25       | 74          | 73           | 60-130             | 0.106 | 30           |
| Pentachlorophenol               | 0.21          | 0.22           | 0.31       | 67          | 70           | 40-130             | 3.92  | 30           |
| Phenanthrene                    | 0.044         | 0.046          | 0.062      | 71          | 73           | 60-130             | 2.59  | 30           |
| Phenol                          | 0.19          | 0.19           | 0.25       | 77          | 77           | 60-130             | 0.382 | 30           |
| Pyrene                          | 0.049         | 0.050          | 0.062      | 78          | 80           | 60-130             | 2.46  | 30           |
| Pyridine                        | 0.56          | 0.50           | 1.25       | 45          | 40           | 30-130             | 10.6  | 30           |
| 2,3,4,6-Tetrachlorophenol       | 1.1           | 1.1            | 1.25       | 84          | 90           | 60-130             | 7.09  | 30           |
| 1,2,4-Trichlorobenzene          | 0.99          | 1.0            | 1.25       | 79          | 81           | 60-130             | 1.81  | 30           |
| 2,4,5-Trichlorophenol           | 0.043         | 0.042          | 0.062      | 69          | 68           | 60-130             | 1.01  | 30           |
| 2,4,6-Trichlorophenol           | 0.043         | 0.044          | 0.062      | 68          | 70           | 60-130             | 2.33  | 30           |

(Cont.)



## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/22/2025  
**Date Analyzed:** 07/22/2025 - 07/24/2025  
**Instrument:** GC17, GC21  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**BatchID:** 321880  
**Extraction Method:** SW3550B/3640A  
**Analytical Method:** SW8270E  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS/LCSD-321880

### QC Summary Report for SW8270E (Low Level) w/ GPC

| Analyte                   | LCS<br>Result | LCSD<br>Result | SPK<br>Val | LCS<br>%REC | LCSD<br>%REC | LCS/LCSD<br>Limits | RPD  | RPD<br>Limit |
|---------------------------|---------------|----------------|------------|-------------|--------------|--------------------|------|--------------|
| <b>Surrogate Recovery</b> |               |                |            |             |              |                    |      |              |
| 2-Fluorophenol            | 0.93          | 0.88           | 1.25       | 74          | 70           | 60-130             | 5.55 | 30           |
| Phenol-d5                 | 0.95          | 0.88           | 1.25       | 76          | 70           | 60-130             | 7.34 | 30           |
| Nitrobenzene-d5           | 1.0           | 0.96           | 1.25       | 80          | 77           | 60-130             | 4.03 | 30           |
| 2-Fluorobiphenyl          | 0.92          | 0.88           | 1.25       | 73          | 70           | 60-130             | 4.57 | 30           |
| 2,4,6-Tribromophenol      | 0.93          | 0.87           | 5          | 19,F3       | 17,F3        | 50-130             | 6.39 | 30           |
| 4-Terphenyl-d14           | 0.95          | 0.92           | 1.25       | 76          | 73           | 50-130             | 3.87 | 30           |



## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/21/2025  
**Date Analyzed:** 07/21/2025  
**Instrument:** ICP-MS5  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**BatchID:** 321711  
**Extraction Method:** SW3050 B  
**Analytical Method:** SW6020  
**Unit:** mg/kg  
**Sample ID:** MB/LCS/LCSD-321711

### QC Summary Report for Metals

| Analyte                   | MB Result | MDL   | RL   | SPK Val | MB IS/SS %REC | MB IS/SS Limits |
|---------------------------|-----------|-------|------|---------|---------------|-----------------|
| Antimony                  | ND        | 0.075 | 0.50 | -       | -             | -               |
| Arsenic                   | ND        | 0.10  | 0.50 | -       | -             | -               |
| Barium                    | ND        | 0.58  | 5.0  | -       | -             | -               |
| Beryllium                 | ND        | 0.082 | 0.50 | -       | -             | -               |
| Cadmium                   | ND        | 0.073 | 0.50 | -       | -             | -               |
| Chromium                  | ND        | 0.14  | 0.50 | -       | -             | -               |
| Cobalt                    | ND        | 0.052 | 0.50 | -       | -             | -               |
| Copper                    | ND        | 0.15  | 0.50 | -       | -             | -               |
| Lead                      | ND        | 0.11  | 0.50 | -       | -             | -               |
| Molybdenum                | ND        | 0.089 | 0.50 | -       | -             | -               |
| Nickel                    | ND        | 0.25  | 0.50 | -       | -             | -               |
| Selenium                  | ND        | 0.20  | 0.50 | -       | -             | -               |
| Silver                    | ND        | 0.066 | 0.50 | -       | -             | -               |
| Thallium                  | ND        | 0.072 | 0.50 | -       | -             | -               |
| Vanadium                  | ND        | 0.10  | 0.50 | -       | -             | -               |
| Zinc                      | ND        | 1.5   | 5.0  | -       | -             | -               |
| <b>Surrogate Recovery</b> |           |       |      |         |               |                 |
| Terbium                   | 540       |       |      | 500     | 107           | 70-130          |



## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/21/2025  
**Date Analyzed:** 07/21/2025  
**Instrument:** ICP-MS5  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**BatchID:** 321711  
**Extraction Method:** SW3050 B  
**Analytical Method:** SW6020  
**Unit:** mg/kg  
**Sample ID:** MB/LCS/LCSD-321711

### QC Summary Report for Metals

| Analyte                   | LCS<br>Result | LCSD<br>Result | SPK<br>Val | LCS<br>%REC | LCSD<br>%REC | LCS/LCSD<br>Limits | RPD    | RPD<br>Limit |
|---------------------------|---------------|----------------|------------|-------------|--------------|--------------------|--------|--------------|
| Antimony                  | 50            | 50             | 50         | 99          | 100          | 75-125             | 0.475  | 20           |
| Arsenic                   | 52            | 51             | 50         | 104         | 103          | 75-125             | 0.838  | 20           |
| Barium                    | 510           | 510            | 500        | 103         | 103          | 75-125             | 0.0425 | 20           |
| Beryllium                 | 50            | 50             | 50         | 100         | 100          | 75-125             | 0.920  | 20           |
| Cadmium                   | 52            | 52             | 50         | 104         | 103          | 75-125             | 0.170  | 20           |
| Chromium                  | 52            | 53             | 50         | 104         | 105          | 75-125             | 0.809  | 20           |
| Cobalt                    | 53            | 52             | 50         | 106         | 105          | 75-125             | 1.56   | 20           |
| Copper                    | 53            | 52             | 50         | 106         | 105          | 75-125             | 1.24   | 20           |
| Lead                      | 51            | 52             | 50         | 102         | 103          | 75-125             | 0.913  | 20           |
| Molybdenum                | 51            | 51             | 50         | 102         | 102          | 75-125             | 0.199  | 20           |
| Nickel                    | 52            | 52             | 50         | 103         | 104          | 75-125             | 0.999  | 20           |
| Selenium                  | 52            | 52             | 50         | 103         | 104          | 75-125             | 0.383  | 20           |
| Silver                    | 51            | 52             | 50         | 102         | 103          | 75-125             | 0.936  | 20           |
| Thallium                  | 52            | 53             | 50         | 105         | 106          | 75-125             | 1.08   | 20           |
| Vanadium                  | 52            | 52             | 50         | 104         | 105          | 75-125             | 0.935  | 20           |
| Zinc                      | 520           | 520            | 500        | 103         | 103          | 75-125             | 0.0325 | 20           |
| <b>Surrogate Recovery</b> |               |                |            |             |              |                    |        |              |
| Terbium                   | 550           | 560            | 500        | 110         | 111          | 70-130             | 0.766  | 20           |



## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/21/2025  
**Date Analyzed:** 07/21/2025 - 07/22/2025  
**Instrument:** ICP-MS4, ICP-MS5  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**BatchID:** 321719  
**Extraction Method:** SW3050 B  
**Analytical Method:** SW6020  
**Unit:** mg/kg  
**Sample ID:** MB/LCS/LCSD-321719  
2507B37-016AMS/MSD

### QC Summary Report for Metals

| Analyte                   | MB Result | MDL   | RL   | SPK Val | MB IS/SS %REC | MB IS/SS Limits |
|---------------------------|-----------|-------|------|---------|---------------|-----------------|
| Antimony                  | ND        | 0.075 | 0.50 | -       | -             | -               |
| Arsenic                   | ND        | 0.10  | 0.50 | -       | -             | -               |
| Barium                    | ND        | 0.58  | 5.0  | -       | -             | -               |
| Beryllium                 | ND        | 0.082 | 0.50 | -       | -             | -               |
| Cadmium                   | ND        | 0.073 | 0.50 | -       | -             | -               |
| Chromium                  | ND        | 0.14  | 0.50 | -       | -             | -               |
| Cobalt                    | ND        | 0.052 | 0.50 | -       | -             | -               |
| Copper                    | ND        | 0.15  | 0.50 | -       | -             | -               |
| Lead                      | ND        | 0.11  | 0.50 | -       | -             | -               |
| Molybdenum                | ND        | 0.089 | 0.50 | -       | -             | -               |
| Nickel                    | ND        | 0.25  | 0.50 | -       | -             | -               |
| Selenium                  | ND        | 0.20  | 0.50 | -       | -             | -               |
| Silver                    | ND        | 0.066 | 0.50 | -       | -             | -               |
| Thallium                  | ND        | 0.072 | 0.50 | -       | -             | -               |
| Vanadium                  | ND        | 0.10  | 0.50 | -       | -             | -               |
| Zinc                      | ND        | 1.5   | 5.0  | -       | -             | -               |
| <b>Surrogate Recovery</b> |           |       |      |         |               |                 |
| Terbium                   | 530       |       |      | 500     | 106           | 70-130          |





## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/21/2025  
**Date Analyzed:** 07/21/2025 - 07/22/2025  
**Instrument:** ICP-MS4, ICP-MS5  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**BatchID:** 321719  
**Extraction Method:** SW3050 B  
**Analytical Method:** SW6020  
**Unit:** mg/kg  
**Sample ID:** MB/LCS/LCSD-321719  
2507B37-016AMS/MSD

### QC Summary Report for Metals

| Analyte    | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD  | RPD Limit |
|------------|------------|-------------|---------|----------|-----------|-----------------|------|-----------|
| Antimony   | 46         | 50          | 50      | 92       | 99        | 75-125          | 7.20 | 20        |
| Arsenic    | 47         | 51          | 50      | 95       | 101       | 75-125          | 6.75 | 20        |
| Barium     | 470        | 510         | 500     | 95       | 102       | 75-125          | 7.41 | 20        |
| Beryllium  | 46         | 50          | 50      | 93       | 101       | 75-125          | 8.16 | 20        |
| Cadmium    | 48         | 51          | 50      | 96       | 102       | 75-125          | 6.12 | 20        |
| Chromium   | 48         | 51          | 50      | 95       | 103       | 75-125          | 7.44 | 20        |
| Cobalt     | 49         | 52          | 50      | 97       | 104       | 75-125          | 7.20 | 20        |
| Copper     | 49         | 52          | 50      | 98       | 103       | 75-125          | 5.48 | 20        |
| Lead       | 47         | 50          | 50      | 94       | 101       | 75-125          | 6.82 | 20        |
| Molybdenum | 48         | 51          | 50      | 96       | 103       | 75-125          | 7.16 | 20        |
| Nickel     | 49         | 51          | 50      | 97       | 102       | 75-125          | 4.87 | 20        |
| Selenium   | 48         | 51          | 50      | 96       | 101       | 75-125          | 5.48 | 20        |
| Silver     | 48         | 51          | 50      | 96       | 102       | 75-125          | 6.23 | 20        |
| Thallium   | 48         | 52          | 50      | 96       | 103       | 75-125          | 6.58 | 20        |
| Vanadium   | 48         | 52          | 50      | 95       | 104       | 75-125          | 8.45 | 20        |
| Zinc       | 480        | 510         | 500     | 95       | 102       | 75-125          | 6.50 | 20        |

#### Surrogate Recovery

|         |     |     |     |     |     |        |      |    |
|---------|-----|-----|-----|-----|-----|--------|------|----|
| Terbium | 510 | 540 | 500 | 102 | 109 | 70-130 | 6.58 | 20 |
|---------|-----|-----|-----|-----|-----|--------|------|----|

| Analyte    | MS DF | MS Result | MSD Result | SPK Val | SPKRef Val | MS %REC | MSD %REC | MS/MSD Limits | RPD  | RPD Limit |
|------------|-------|-----------|------------|---------|------------|---------|----------|---------------|------|-----------|
| Antimony   | 1     | 48        | 45         | 50      | 0.4990     | 95      | 89       | 75-125        | 5.88 | 20        |
| Arsenic    | 1     | 54        | 49         | 50      | 5.069      | 97      | 88       | 75-125        | 8.69 | 20        |
| Barium     | 1     | 760       | 720        | 500     | 229.1      | 106     | 98       | 75-125        | 4.91 | 20        |
| Beryllium  | 1     | 45        | 43         | 50      | 0.7090     | 89      | 84       | 75-125        | 5.66 | 20        |
| Cadmium    | 1     | 50        | 47         | 50      | ND         | 99      | 93       | 75-125        | 5.69 | 20        |
| Chromium   | 1     | 140       | 140        | 50      | 94.30      | 95      | 82       | 75-125        | 4.84 | 20        |
| Cobalt     | 1     | 64        | 60         | 50      | 16.81      | 95      | 87       | 75-125        | 6.08 | 20        |
| Copper     | 1     | 83        | 78         | 50      | 35.23      | 96      | 86       | 75-125        | 6.43 | 20        |
| Lead       | 1     | 57        | 54         | 50      | 7.886      | 97      | 92       | 75-125        | 4.93 | 20        |
| Molybdenum | 1     | 51        | 48         | 50      | 0.7820     | 100     | 94       | 75-125        | 5.84 | 20        |
| Nickel     | 1     | 180       | 160        | 50      | 129.5      | 96      | 68,F10   | 75-125        | 8.25 | 20        |
| Selenium   | 1     | 49        | 47         | 50      | ND         | 98      | 93       | 75-125        | 4.65 | 20        |
| Silver     | 1     | 49        | 46         | 50      | ND         | 98      | 93       | 75-125        | 5.26 | 20        |
| Thallium   | 1     | 49        | 46         | 50      | ND         | 99      | 92       | 75-125        | 6.54 | 20        |
| Vanadium   | 1     | 120       | 110        | 50      | 65.39      | 109     | 96       | 75-125        | 5.25 | 20        |

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## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/21/2025  
**Date Analyzed:** 07/21/2025 - 07/22/2025  
**Instrument:** ICP-MS4, ICP-MS5  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**BatchID:** 321719  
**Extraction Method:** SW3050 B  
**Analytical Method:** SW6020  
**Unit:** mg/kg  
**Sample ID:** MB/LCS/LCSD-321719  
2507B37-016AMS/MSD

### QC Summary Report for Metals

| Analyte | MS<br>DF | MS<br>Result | MSD<br>Result | SPK<br>Val | SPKRef<br>Val | MS<br>%REC | MSD<br>%REC | MS/MSD<br>Limits | RPD  | RPD<br>Limit |
|---------|----------|--------------|---------------|------------|---------------|------------|-------------|------------------|------|--------------|
| Zinc    | 1        | 560          | 520           | 500        | 74.21         | 97         | 89          | 75-125           | 7.10 | 20           |

#### Surrogate Recovery

|         |   |     |     |     |  |     |    |        |      |    |
|---------|---|-----|-----|-----|--|-----|----|--------|------|----|
| Terbium | 1 | 530 | 490 | 500 |  | 106 | 98 | 70-130 | 8.30 | 20 |
|---------|---|-----|-----|-----|--|-----|----|--------|------|----|

| Analyte    | DLT<br>Result | DLTRef<br>Val | %D   | %D<br>Limit |
|------------|---------------|---------------|------|-------------|
| Antimony   | ND<2.5        | 0.50          | -    | -           |
| Arsenic    | 5.6           | 5.1           | 9.49 | -           |
| Barium     | 220           | 230           | 4.60 | 20          |
| Beryllium  | ND<2.5        | 0.71          | -    | -           |
| Cadmium    | ND<2.5        | ND            | -    | -           |
| Chromium   | 100           | 94            | 7.74 | 20          |
| Cobalt     | 19            | 17            | 11.3 | 20          |
| Copper     | 37            | 35            | 3.84 | 20          |
| Lead       | 8.0           | 7.9           | 1.26 | -           |
| Molybdenum | ND<2.5        | 0.78          | -    | -           |
| Nickel     | 140           | 130           | 6.07 | 20          |
| Selenium   | ND<2.5        | ND            | -    | -           |
| Silver     | ND<2.5        | ND            | -    | -           |
| Thallium   | ND<2.5        | ND            | -    | -           |
| Vanadium   | 71            | 65            | 8.95 | 20          |
| Zinc       | 79            | 74            | 6.21 | -           |

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.



## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/21/2025  
**Date Analyzed:** 07/22/2025  
**Instrument:** AA1  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**BatchID:** 321718  
**Extraction Method:** SW7471 B  
**Analytical Method:** SW7471 B  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS/LCSD-321718  
2507B37-018AMS/MSD  
2507B37-018APDS

### QC Summary Report for Mercury

| Analyte | MB Result | MDL   | RL    |   |   |   |
|---------|-----------|-------|-------|---|---|---|
| Mercury | ND        | 0.011 | 0.017 | - | - | - |

| Analyte | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD  | RPD Limit |
|---------|------------|-------------|---------|----------|-----------|-----------------|------|-----------|
| Mercury | 0.16       | 0.17        | 0.17    | 97       | 99        | 80-120          | 1.67 | 20        |

| Analyte | MS DF | MS Result | MSD Result | SPK Val | SPKRef Val | MS %REC | MSD %REC | MS/MSD Limits | RPD  | RPD Limit |
|---------|-------|-----------|------------|---------|------------|---------|----------|---------------|------|-----------|
| Mercury | 1     | 0.54      | 0.49       | 0.17    | 0.09761    | 266,F10 | 234,F10  | 80-120        | 10.4 | 20        |

| Analyte | PDS Result | SPK Val | SPKRef Val | PDS %REC | PDS Limits |
|---------|------------|---------|------------|----------|------------|
| Mercury | 0.25       | 0.17    | 0.09761    | 90       | 75-125     |

| Analyte | DLT Result | DLTRef Val | %D    | %D Limit |
|---------|------------|------------|-------|----------|
| Mercury | 0.097      | 0.098      | 0.421 | -        |

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.

(Cont.)



## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/21/2025  
**Date Analyzed:** 07/22/2025  
**Instrument:** AA1  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**BatchID:** 321844  
**Extraction Method:** SW7471 B  
**Analytical Method:** SW7471 B  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS/LCSD-321844  
2507B37-015AMS/MSD

### QC Summary Report for Mercury

| Analyte | MB Result | MDL   | RL    |   |   |   |
|---------|-----------|-------|-------|---|---|---|
| Mercury | ND        | 0.011 | 0.017 | - | - | - |

| Analyte | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD  | RPD Limit |
|---------|------------|-------------|---------|----------|-----------|-----------------|------|-----------|
| Mercury | 0.16       | 0.16        | 0.17    | 93       | 97        | 80-120          | 3.98 | 20        |

| Analyte | MS DF | MS Result | MSD Result | SPK Val | SPKRef Val | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD Limit |
|---------|-------|-----------|------------|---------|------------|---------|----------|---------------|-----|-----------|
| Mercury | 50    | NR        | NR         | 0.17    | 6.469      | NR      | NR       | 80-120        | NR  | 20        |

| Analyte | DLT Result | DLTRef Val | %D   | %D Limit |
|---------|------------|------------|------|----------|
| Mercury | 7.1        | 6.5        | 9.31 | 20       |

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.



## Quality Control Report

**Client:** Langan  
**Date Prepared:** 07/23/2025  
**Date Analyzed:** 07/23/2025  
**Instrument:** WetChem  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B37  
**BatchID:** 322025  
**Extraction Method:** ASTM D2216-05  
**Analytical Method:** SW8000  
**Unit:** wet wt%  
**Sample ID:** MB-322025  
2507B37-019B

### QC Summary Report for Percent Moisture

| Analyte    | MB<br>Result | MDL   | RL    |   |   |   |
|------------|--------------|-------|-------|---|---|---|
| % Moisture | ND           | 0.100 | 0.100 | - | - | - |

| Analyte    | SAMP Result | DUP Result | RPD  | RPD<br>Limit |
|------------|-------------|------------|------|--------------|
| % Moisture | 13.9        | 14.3       | 2.70 | 15           |



## Certified Analyte List

**Client:** Langan

**WorkOrder:** 2507B37

**Project:** 770651908; Northtown Campus

| Analyte               | Cert 1                           | Cert 2                           | Cert 3                | Cert 4                | Cert 5                | Analytical Method | Matrix |
|-----------------------|----------------------------------|----------------------------------|-----------------------|-----------------------|-----------------------|-------------------|--------|
| 10:2 FTS              | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| 11CIPF3OUdS           | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| 3:3 FTCA              | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| 4:2 FTS               | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| 5:3 FTCA              | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| 6:2 FTS               | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| 7:3 FTCA              | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| 8:2 FTS               | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| 9CIPF3ONS             | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| ADONA                 | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| EtFOSA                | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| EtFOSE                | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| HFPO-DA               | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| MeFOSA                | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| MeFOSE                | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| NEtFOSAA              | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| NFDHA                 | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| NMeFOSAA              | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| PFBA                  | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| PFBS                  | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| PFDA                  | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| PFDoA                 | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| PFDoS                 | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| PFDS                  | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| PFEESA                | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| PFHpA                 | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| PFHpS                 | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| PFHxA                 | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| PFHxDA                | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| PFHxS                 | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| PFMBA                 | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| PFMPA                 | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| PFNA                  | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| PFNS                  | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| PFOA                  | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| PFODA                 | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| PFOS                  | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| PFOSA                 | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| PFPeA                 | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| PFPeS                 | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| PFTeDA                | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| PFTTrDA               | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| PFUnA                 | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | E1633             | Soil   |
| a-BHC                 | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8081 B          | Soil   |
| a-Chlordane           | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8081 B          | Soil   |
| Aldrin                | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8081 B          | Soil   |
| b-BHC                 | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8081 B          | Soil   |
| Chlordane (Technical) | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8081 B          | Soil   |
| d-BHC                 | <input type="radio"/>            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8081 B          | Soil   |
| Dieldrin              | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW8081 B          | Soil   |



## Certified Analyte List

**Client:** Langan

**WorkOrder:** 2507B37

**Project:** 770651908; Northtown Campus

| Analyte                      | Cert 1 | Cert 2 | Cert 3 | Cert 4 | Cert 5 | Analytical Method | Matrix |
|------------------------------|--------|--------|--------|--------|--------|-------------------|--------|
| Dieldrin                     | ●      | ●      | ○      | ○      | ○      | SW8081 B          | Soil   |
| Endosulfan I                 | ●      | ●      | ○      | ○      | ○      | SW8081 B          | Soil   |
| Endosulfan I                 | ●      | ●      | ○      | ○      | ○      | SW8081 B          | Soil   |
| Endosulfan II                | ●      | ●      | ○      | ○      | ○      | SW8081 B          | Soil   |
| Endosulfan sulfate           | ●      | ●      | ○      | ○      | ○      | SW8081 B          | Soil   |
| Endrin aldehyde              | ●      | ●      | ○      | ○      | ○      | SW8081 B          | Soil   |
| Endrin ketone                | ●      | ●      | ○      | ○      | ○      | SW8081 B          | Soil   |
| Endrin                       | ●      | ●      | ○      | ○      | ○      | SW8081 B          | Soil   |
| g-BHC                        | ●      | ●      | ○      | ○      | ○      | SW8081 B          | Soil   |
| g-Chlordane                  | ○      | ●      | ○      | ○      | ○      | SW8081 B          | Soil   |
| g-Chlordane                  | ○      | ●      | ○      | ○      | ○      | SW8081 B          | Soil   |
| Heptachlor epoxide           | ●      | ●      | ○      | ○      | ○      | SW8081 B          | Soil   |
| Heptachlor                   | ○      | ○      | ○      | ○      | ○      | SW8081 B          | Soil   |
| Hexachlorobenzene            | ○      | ○      | ○      | ○      | ○      | SW8081 B          | Soil   |
| Hexachlorocyclopentadiene    | ○      | ○      | ○      | ○      | ○      | SW8081 B          | Soil   |
| Methoxychlor                 | ●      | ●      | ○      | ○      | ○      | SW8081 B          | Soil   |
| p,p-DDD                      | ●      | ●      | ○      | ○      | ○      | SW8081 B          | Soil   |
| p,p-DDD                      | ●      | ●      | ○      | ○      | ○      | SW8081 B          | Soil   |
| p,p-DDE                      | ●      | ●      | ○      | ○      | ○      | SW8081 B          | Soil   |
| p,p-DDT                      | ●      | ●      | ○      | ○      | ○      | SW8081 B          | Soil   |
| p,p-DDT                      | ●      | ●      | ○      | ○      | ○      | SW8081 B          | Soil   |
| Toxaphene                    | ●      | ●      | ○      | ○      | ○      | SW8081 B          | Soil   |
| 1,1,1,2-Tetrachloroethane    | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| 1,1,1-Trichloroethane        | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| 1,1,2,2-Tetrachloroethane    | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| 1,1,2-Trichloroethane        | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| 1,1-Dichloroethane           | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| 1,1-Dichloroethene           | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| 1,1-Dichloropropene          | ○      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| 1,2,3-Trichlorobenzene       | ○      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| 1,2,3-Trichloropropane       | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| 1,2,4-Trichlorobenzene       | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| 1,2,4-Trimethylbenzene       | ○      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| 1,2-Dibromo-3-chloropropane  | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| 1,2-Dibromoethane (EDB)      | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| 1,2-Dichlorobenzene          | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| 1,2-Dichloroethane (1,2-DCA) | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| 1,2-Dichloropropane          | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| 1,3,5-Trimethylbenzene       | ○      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| 1,3-Dichlorobenzene          | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| 1,3-Dichloropropane          | ○      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| 1,4-Dichlorobenzene          | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| 2,2-Dichloropropane          | ○      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| 2-Butanone (MEK)             | ○      | ○      | ○      | ○      | ○      | SW8260D           | Soil   |
| 2-Chlorotoluene              | ○      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| 2-Hexanone                   | ○      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| 4-Chlorotoluene              | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| 4-Isopropyl toluene          | ○      | ○      | ○      | ○      | ○      | SW8260D           | Soil   |
| 4-Methyl-2-pentanone (MIBK)  | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| Acetone                      | ○      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |



## Certified Analyte List

**Client:** Langan

**WorkOrder:** 2507B37

**Project:** 770651908; Northtown Campus

| Analyte                       | Cert 1 | Cert 2 | Cert 3 | Cert 4 | Cert 5 | Analytical Method | Matrix |
|-------------------------------|--------|--------|--------|--------|--------|-------------------|--------|
| Benzene                       | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| Bromobenzene                  | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| Bromochloromethane            | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| Bromodichloromethane          | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| Bromoform                     | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| Bromomethane                  | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| Carbon Disulfide              | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| Carbon Tetrachloride          | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| Chlorobenzene                 | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| Chloroethane                  | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| Chloroform                    | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| Chloromethane                 | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| cis-1,2-Dichloroethene        | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| cis-1,3-Dichloropropene       | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| Dibromochloromethane          | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| Dibromomethane                | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| Dichlorodifluoromethane       | ○      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| Diisopropyl ether (DIPE)      | ●      | ○      | ○      | ○      | ○      | SW8260D           | Soil   |
| Ethyl tert-butyl ether (ETBE) | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| Ethylbenzene                  | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| Freon 113                     | ○      | ○      | ○      | ○      | ○      | SW8260D           | Soil   |
| Hexachlorobutadiene           | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| Hexachloroethane              | ○      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| Isopropylbenzene              | ○      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| m,p-Xylene                    | ●      | ○      | ○      | ○      | ○      | SW8260D           | Soil   |
| Methylene chloride            | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| Methyl-t-butyl ether (MTBE)   | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| Naphthalene                   | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| n-Butyl benzene               | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| n-Propyl benzene              | ●      | ○      | ○      | ○      | ○      | SW8260D           | Soil   |
| o-Xylene                      | ○      | ○      | ○      | ○      | ○      | SW8260D           | Soil   |
| sec-Butyl benzene             | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| Styrene                       | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| t-Butyl alcohol (TBA)         | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| tert-Amyl methyl ether (TAME) | ○      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| tert-Butyl benzene            | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| Tetrachloroethene             | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| Toluene                       | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| trans-1,2-Dichloroethene      | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| trans-1,3-Dichloropropene     | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| Trichloroethene               | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| Trichlorofluoromethane        | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| Vinyl Chloride                | ●      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| Xylenes, Total                | ○      | ●      | ○      | ○      | ○      | SW8260D           | Soil   |
| 1,1-Biphenyl                  | ○      | ○      | ○      | ○      | ○      | SW8270E           | Soil   |
| 1,2,4-Trichlorobenzene        | ○      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| 1,2-Dichlorobenzene           | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| 1,2-Diphenylhydrazine         | ○      | ○      | ○      | ○      | ○      | SW8270E           | Soil   |
| 1,3-Dichlorobenzene           | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| 1,4-Dichlorobenzene           | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |





## Certified Analyte List

**Client:** Langan

**WorkOrder:** 2507B37

**Project:** 770651908; Northtown Campus

| Analyte                         | Cert 1 | Cert 2 | Cert 3 | Cert 4 | Cert 5 | Analytical Method | Matrix |
|---------------------------------|--------|--------|--------|--------|--------|-------------------|--------|
| 1-Methylnaphthalene             | ○      | ○      | ○      | ○      | ○      | SW8270E           | Soil   |
| 2,3,4,6-Tetrachlorophenol       | ○      | ○      | ○      | ○      | ○      | SW8270E           | Soil   |
| 2,4,5-Trichlorophenol           | ○      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| 2,4,6-Trichlorophenol           | ○      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| 2,4-Dichlorophenol              | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| 2,4-Dimethylphenol              | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| 2,4-Dinitrophenol               | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| 2,4-Dinitrotoluene              | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| 2,6-Dichlorophenol              | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| 2,6-Dinitrotoluene              | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| 2-Chloronaphthalene             | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| 2-Chlorophenol                  | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| 2-Methylnaphthalene             | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| 2-Methylphenol (o-Cresol)       | ○      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| 2-Nitroaniline                  | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| 2-Nitrophenol                   | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| 3 & 4-Methylphenol (m,p-Cresol) | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| 3,3-Dichlorobenzidine           | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| 3-Nitroaniline                  | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| 4,6-Dinitro-2-methylphenol      | ○      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| 4-Bromophenyl Phenyl Ether      | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| 4-Chloro-3-methylphenol         | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| 4-Chloroaniline                 | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| 4-Chlorophenyl Phenyl Ether     | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| 4-Nitroaniline                  | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| 4-Nitrophenol                   | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| Acenaphthene                    | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| Acenaphthylene                  | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| Acetochlor                      | ○      | ○      | ○      | ○      | ○      | SW8270E           | Soil   |
| Anthracene                      | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| Benzidine                       | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| Benzo (a) anthracene            | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| Benzo (a) pyrene                | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| Benzo (b) fluoranthene          | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| Benzo (g,h,i) perylene          | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| Benzo (k) fluoranthene          | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| Benzoic Acid                    | ○      | ○      | ○      | ○      | ○      | SW8270E           | Soil   |
| Benzyl Alcohol                  | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| Bis (2-chloroethoxy) Methane    | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| Bis (2-chloroethyl) Ether       | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| Bis (2-chloroisopropyl) Ether   | ○      | ○      | ○      | ○      | ○      | SW8270E           | Soil   |
| Bis (2-ethylhexyl) Adipate      | ○      | ○      | ○      | ○      | ○      | SW8270E           | Soil   |
| Bis (2-ethylhexyl) Phthalate    | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| Butylbenzyl Phthalate           | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| Chrysene                        | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| Dibenzo (a,h) anthracene        | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| Dibenzofuran                    | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| Diethyl Phthalate               | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| Dimethyl Phthalate              | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| Di-n-butyl Phthalate            | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |



## Certified Analyte List

**Client:** Langan

**WorkOrder:** 2507B37

**Project:** 770651908; Northtown Campus

| Analyte                   | Cert 1 | Cert 2 | Cert 3 | Cert 4 | Cert 5 | Analytical Method | Matrix |
|---------------------------|--------|--------|--------|--------|--------|-------------------|--------|
| Di-n-octyl Phthalate      | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| Fluoranthene              | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| Fluorene                  | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| Hexachlorobenzene         | ○      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| Hexachlorobutadiene       | ○      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| Hexachlorocyclopentadiene | ○      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| Hexachloroethane          | ○      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| Indeno (1,2,3-cd) pyrene  | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| Isophorone                | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| Naphthalene               | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| Nitrobenzene              | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| N-Nitrosodimethylamine    | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| N-Nitrosodi-n-propylamine | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| N-Nitrosodiphenylamine    | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| Pentachlorophenol         | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| Phenanthrene              | ●      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| Phenol                    | ○      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| Pyrene                    | ○      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| Pyridine                  | ○      | ●      | ○      | ○      | ○      | SW8270E           | Soil   |
| Antimony                  | ●      | ●      | ○      | ○      | ○      | SW6020            | Soil   |
| Arsenic                   | ●      | ●      | ○      | ○      | ○      | SW6020            | Soil   |
| Barium                    | ●      | ●      | ○      | ○      | ○      | SW6020            | Soil   |
| Beryllium                 | ●      | ●      | ○      | ○      | ○      | SW6020            | Soil   |
| Cadmium                   | ●      | ●      | ○      | ○      | ○      | SW6020            | Soil   |
| Chromium                  | ●      | ●      | ○      | ○      | ○      | SW6020            | Soil   |
| Cobalt                    | ●      | ●      | ○      | ○      | ○      | SW6020            | Soil   |
| Copper                    | ●      | ●      | ○      | ○      | ○      | SW6020            | Soil   |
| Lead                      | ●      | ●      | ○      | ○      | ○      | SW6020            | Soil   |
| Molybdenum                | ●      | ●      | ○      | ○      | ○      | SW6020            | Soil   |
| Nickel                    | ●      | ●      | ○      | ○      | ○      | SW6020            | Soil   |
| Selenium                  | ●      | ●      | ○      | ○      | ○      | SW6020            | Soil   |
| Silver                    | ●      | ●      | ○      | ○      | ○      | SW6020            | Soil   |
| Thallium                  | ●      | ●      | ○      | ○      | ○      | SW6020            | Soil   |
| Vanadium                  | ●      | ●      | ○      | ○      | ○      | SW6020            | Soil   |
| Zinc                      | ●      | ●      | ○      | ○      | ○      | SW6020            | Soil   |
| Mercury                   | ●      | ●      | ○      | ○      | ○      | SW7471 B          | Soil   |

### Certifications

|        |                         |
|--------|-------------------------|
| Cert 1 | CA ELAP 1644            |
| Cert 2 | ORELAP (NELAP) 4033     |
| Cert 3 | DoD-ELAP Cert # L22-757 |

The Certified Analyte Report lists the compounds for which MAI is accredited at the time of issuance. Although MAI holds multiple accreditations, methods with extensive compound lists may not be fully accredited due to state agency availability.



1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 2507B37

ClientCode: TRSJ

☐ WaterTrax

☐ CLIP

☐ EDF

☒ EQUIS

☐ Dry-Weight

☒ Email

☐ HardCopy

☐ ThirdParty

☐ J-flag

☐ Detection Summary

☐ Excel

**Report to:**

Nelson Pi  
Langan  
1 Almaden Blvd, Suite 590  
San Jose, CA 95113  
407-494-8451 FAX:

Email: npi@langan.com  
cc/3rd Party: wwei@langan.com; drodriguez@Langan.co  
PO:  
Project: 770651908; Northtown Campus

**Bill to:**

Accounts Payable  
Langan  
135 Main St, Suite 1500  
San Francisco, CA 94105  
Langan\_InvoiceCapture@concursolution

**Requested TAT: 5 days;**

*Date Received:* **07/17/2025**

*Date Logged:* **07/18/2025**

| Lab ID      | ClientSampID | Matrix | Collection Date | Hold                     | Requested Tests (See legend below) |   |   |   |   |   |   |   |   |    |    |    |
|-------------|--------------|--------|-----------------|--------------------------|------------------------------------|---|---|---|---|---|---|---|---|----|----|----|
|             |              |        |                 |                          | 1                                  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 2507B37-001 | SB-01-1      | Soil   | 7/15/2025 12:11 | <input type="checkbox"/> |                                    | A | A | A | A | A |   | A |   |    |    |    |
| 2507B37-002 | SB-01-9.5    | Soil   | 7/15/2025 12:42 | <input type="checkbox"/> | B                                  |   | A | A | A | A | B | A |   |    |    |    |
| 2507B37-003 | SB-02-1      | Soil   | 7/15/2025 09:29 | <input type="checkbox"/> |                                    | A | A | A | A | A |   | A |   |    |    |    |
| 2507B37-004 | SB-02-10     | Soil   | 7/15/2025 09:59 | <input type="checkbox"/> | B                                  |   | A | A | A | A | B | A |   |    |    |    |
| 2507B37-005 | SB-03-1      | Soil   | 7/15/2025 15:09 | <input type="checkbox"/> |                                    | A | A | A | A | A |   | A |   |    |    |    |
| 2507B37-006 | SB-03-10     | Soil   | 7/15/2025 15:09 | <input type="checkbox"/> | B                                  |   | A | A | A | A | B | A |   |    |    |    |
| 2507B37-007 | SB-04-1      | Soil   | 7/16/2025 10:40 | <input type="checkbox"/> |                                    | A | A | A | A | A |   | A |   |    |    |    |
| 2507B37-008 | SB-04-5      | Soil   | 7/16/2025 10:41 | <input type="checkbox"/> | B                                  |   | A | A | A | A | B | A |   |    |    |    |
| 2507B37-009 | SB-05-1      | Soil   | 7/16/2025 08:12 | <input type="checkbox"/> |                                    | A | A | A | A | A |   | A |   |    |    |    |
| 2507B37-010 | SB-05-5      | Soil   | 7/16/2025 08:25 | <input type="checkbox"/> | B                                  |   | A | A | A | A | B | A |   |    |    |    |
| 2507B37-011 | SB-06-1.5    | Soil   | 7/16/2025 14:00 | <input type="checkbox"/> |                                    | A | A | A | A | A |   | A |   |    |    |    |
| 2507B37-012 | SB-06-5      | Soil   | 7/16/2025 13:57 | <input type="checkbox"/> | B                                  |   | A | A | A | A | B | A |   |    |    |    |
| 2507B37-013 | SB-07-1      | Soil   | 7/16/2025 13:25 | <input type="checkbox"/> |                                    | A | A | A | A | A |   | A |   |    |    |    |
| 2507B37-014 | SB-07-5      | Soil   | 7/16/2025 13:23 | <input type="checkbox"/> | B                                  |   | A | A | A | A | B | A |   |    |    |    |
| 2507B37-015 | SB-08-1      | Soil   | 7/16/2025 11:35 | <input type="checkbox"/> |                                    | A | A | A | A | A |   | A |   |    |    |    |

**Test Legend:**

|   |                |    |               |    |            |    |                 |
|---|----------------|----|---------------|----|------------|----|-----------------|
| 1 | 1633_S         | 2  | 8081_ESL_LL_S | 3  | 8260_S     | 4  | 8270_SCSM_GPC_S |
| 5 | CAM17MS_TTLC_S | 6  | HG_S          | 7  | PERmoist_S | 8  | PRDisposal Fee  |
| 9 |                | 10 |               | 11 |            | 12 |                 |

**Prepared by: Valerie Alfaro**

The following SampIDs: 002B, 004B, 006B, 008B, 010B, 012B, 014B, 016B, 018B, 019B, 020B, 021B contain testgroup 1633\_S.; The following SampIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A, 008A, 009A, 010A, 011A, 012A, 013A, 014A, 015A, 016A, 017A, 018A, 019A, 020A, 021A contain testgroup CAM17MS\_TTLC\_S(-HG+7471B).

**Comments:**

NOTE: Soil samples are discarded 60 days after receipt unless other arrangements are made (Water samples are 30 days).  
Hazardous samples will be returned to client or disposed of at client expense.



1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 2507B37

ClientCode: TRSJ

☐ WaterTrax

☐ CLIP

☐ EDF

☒ EQuIS

☐ Dry-Weight

☒ Email

☐ HardCopy

☐ ThirdParty

☐ J-flag

☐ Detection Summary

☐ Excel

**Report to:**

Nelson Pi  
Langan  
1 Almaden Blvd, Suite 590  
San Jose, CA 95113  
407-494-8451 FAX:

Email: npi@langan.com  
cc/3rd Party: wwei@langan.com; drodriguez@Langan.co  
PO:  
Project: 770651908; Northtown Campus

**Bill to:**

Accounts Payable  
Langan  
135 Main St, Suite 1500  
San Francisco, CA 94105  
Langan\_InvoiceCapture@concursolution

**Requested TAT: 5 days;**

*Date Received:* **07/17/2025**

*Date Logged:* **07/18/2025**

| Lab ID      | ClientSampID | Matrix | Collection Date | Hold                     | Requested Tests (See legend below) |   |   |   |   |   |   |   |   |    |    |    |
|-------------|--------------|--------|-----------------|--------------------------|------------------------------------|---|---|---|---|---|---|---|---|----|----|----|
|             |              |        |                 |                          | 1                                  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 2507B37-016 | SB-08-5      | Soil   | 7/16/2025 11:32 | <input type="checkbox"/> | B                                  |   | A | A | A | A | B | A |   |    |    |    |
| 2507B37-017 | SB-09-1      | Soil   | 7/16/2025 11:56 | <input type="checkbox"/> |                                    | A | A | A | A | A |   | A |   |    |    |    |
| 2507B37-018 | SB-09-5      | Soil   | 7/16/2025 11:53 | <input type="checkbox"/> | B                                  |   | A | A | A | A | B | A |   |    |    |    |
| 2507B37-019 | SB-04-8.5    | Soil   | 7/16/2025 10:46 | <input type="checkbox"/> | B                                  |   | A | A | A | A | B | A |   |    |    |    |
| 2507B37-020 | SB-04-10     | Soil   | 7/16/2025 09:12 | <input type="checkbox"/> | B                                  |   | A | A | A | A | B | A |   |    |    |    |
| 2507B37-021 | SB-08-3      | Soil   | 7/16/2025 11:38 | <input type="checkbox"/> | B                                  |   | A | A | A | A | B | A |   |    |    |    |

**Test Legend:**

|   |                |
|---|----------------|
| 1 | 1633_S         |
| 5 | CAM17MS_TTLC_S |
| 9 |                |

|    |               |
|----|---------------|
| 2  | 8081_ESL_LL_S |
| 6  | HG_S          |
| 10 |               |

|    |            |
|----|------------|
| 3  | 8260_S     |
| 7  | PERmoist_S |
| 11 |            |

|    |                 |
|----|-----------------|
| 4  | 8270_SCSM_GPC_S |
| 8  | PRDisposal Fee  |
| 12 |                 |

**Prepared by: Valerie Alfaro**

The following SampIDs: 002B, 004B, 006B, 008B, 010B, 012B, 014B, 016B, 018B, 019B, 020B, 021B contain testgroup 1633\_S.; The following SampIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A, 008A, 009A, 010A, 011A, 012A, 013A, 014A, 015A, 016A, 017A, 018A, 019A, 020A, 021A contain testgroup CAM17MS\_TTLC\_S(-HG+7471B).

**Comments:**

NOTE: Soil samples are discarded 60 days after receipt unless other arrangements are made (Water samples are 30 days).  
Hazardous samples will be returned to client or disposed of at client expense.



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701  
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269  
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

## WORK ORDER SUMMARY

**Client Name:** LANGAN  
**Client Contact:** Nelson Pi  
**Contact's Email:** npj@langan.com

**Project:** 770651908; Northtown Campus

**Work Order:** 2507B37

**QC Level:** LEVEL 2

**Date Logged:** 7/18/2025

**Comments**

☐ WaterTrax ☐ CLIP ☐ EDF ☐ Excel ☒ EQuIS ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

| LabID | ClientSampID | Matrix | Test Name                                     | Cont./<br>Comp. | Bottle &<br>Preservative | U**                      | Head<br>Space            | Dry-<br>Weight           | Collection Date<br>& Time | TAT    | Test Due Date | Sediment<br>Content | Hold                     | Sub<br>Out               |
|-------|--------------|--------|-----------------------------------------------|-----------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------|--------|---------------|---------------------|--------------------------|--------------------------|
| 001A  | SB-01-1      | Soil   | SW6020/SW7471B (CAM 17 + Hg) †                | 1               | 16OZ GJ, Unpres          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/15/2025 12:11           | 5 days | 7/24/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | SW8270E (Low Level SVOCs) with<br>GPC Cleanup |                 |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 5 days | 7/28/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | SW8260D (VOCs)                                |                 |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 5 days | 7/24/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | SW8081 B (OC Pesticides) Low Level            |                 |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 5 days | 7/28/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
| 002A  | SB-01-9.5    | Soil   | SW6020/SW7471B (CAM 17 + Hg) †                | 1               | 16OZ GJ, Unpres          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/15/2025 12:42           | 5 days | 7/24/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | SW8270E (Low Level SVOCs) with<br>GPC Cleanup |                 |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 5 days | 7/28/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | SW8260D (VOCs)                                |                 |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 5 days | 7/24/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
| 002B  | SB-01-9.5    | Soil   | SW8000 (Percent Moisture)                     | 1               | 125mL HDPE,<br>unprsv.   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/15/2025 12:42           | 5 days | 7/24/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | E1633 Perfluorinated Compounds                |                 |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 5 days | 7/24/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
| 003A  | SB-02-1      | Soil   | SW6020/SW7471B (CAM 17 + Hg) †                | 1               | 16OZ GJ, Unpres          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/15/2025 9:29            | 5 days | 7/24/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |

**NOTES:** \* STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- ISM prep requires 5 to 10 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 6 to 11 days from sample submission). Due date listed on WO summary will not accurately reflect the time needed for sample preparation.

- Organic extracts are held for 40 days before disposal; Inorganic extract are held for 30 days.

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

U\*\* = An unpreserved container was received for a method that suggests a preservation in order to extend hold time for analysis.

### TestGroup Definition:

† CAM 17 Metals (TTLC) without HG by 6020, HG by 7471



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http://www.mccampbell.com / E-mail: main@mccampbell.com

## WORK ORDER SUMMARY

**Client Name:** LANGAN  
**Client Contact:** Nelson Pi  
**Contact's Email:** npil@languan.com

**Project:** 770651908; Northtown Campus

**Work Order:** 2507B37

**QC Level:** LEVEL 2

**Date Logged:** 7/18/2025

**Comments**

☐ WaterTrax ☐ CLIP ☐ EDF ☐ Excel ☒ EQuIS ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

| LabID | ClientSampID | Matrix | Test Name                                     | Cont./<br>Comp. | Bottle &<br>Preservative | U**                      | Head<br>Space            | Dry-<br>Weight           | Collection Date<br>& Time | TAT    | Test Due Date | Sediment<br>Content | Hold                     | Sub<br>Out               |
|-------|--------------|--------|-----------------------------------------------|-----------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------|--------|---------------|---------------------|--------------------------|--------------------------|
| 003A  | SB-02-1      | Soil   | SW8270E (Low Level SVOCs) with<br>GPC Cleanup | 1               | 16OZ GJ, Unpres          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/15/2025 9:29            | 5 days | 7/28/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | SW8260D (VOCs)                                |                 |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 5 days | 7/24/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | SW8081 B (OC Pesticides) Low Level            |                 |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 5 days | 7/28/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
| 004A  | SB-02-10     | Soil   | SW6020/SW7471B (CAM 17 + Hg) †                | 1               | 16OZ GJ, Unpres          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/15/2025 9:59            | 5 days | 7/24/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | SW8270E (Low Level SVOCs) with<br>GPC Cleanup |                 |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 5 days | 7/28/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | SW8260D (VOCs)                                |                 |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 5 days | 7/24/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
| 004B  | SB-02-10     | Soil   | SW8000 (Percent Moisture)                     | 1               | 125mL HDPE,<br>unprsv.   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/15/2025 9:59            | 5 days | 7/24/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | E1633 Perfluorinated Compounds                |                 |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 5 days | 7/25/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
| 005A  | SB-03-1      | Soil   | SW6020/SW7471B (CAM 17 + Hg) †                | 1               | 16OZ GJ, Unpres          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/15/2025 15:09           | 5 days | 7/24/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | SW8270E (Low Level SVOCs) with<br>GPC Cleanup |                 |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 5 days | 7/28/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |

**NOTES:** \* STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

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### TestGroup Definition:

† CAM 17 Metals (TTL) without HG by 6020, HG by 7471



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## WORK ORDER SUMMARY

**Client Name:** LANGAN  
**Client Contact:** Nelson Pi  
**Contact's Email:** npj@languan.com

**Project:** 770651908; Northtown Campus

**Work Order:** 2507B37

**QC Level:** LEVEL 2

**Date Logged:** 7/18/2025

**Comments**

☐ WaterTrax ☐ CLIP ☐ EDF ☐ Excel ☒ EQuIS ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

| LabID | ClientSampID | Matrix | Test Name                                     | Cont./<br>Comp. | Bottle &<br>Preservative | U**                      | Head<br>Space            | Dry-<br>Weight           | Collection Date<br>& Time | TAT    | Test Due Date | Sediment<br>Content | Hold                     | Sub<br>Out               |
|-------|--------------|--------|-----------------------------------------------|-----------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------|--------|---------------|---------------------|--------------------------|--------------------------|
| 005A  | SB-03-1      | Soil   | SW8260D (VOCs)                                | 1               | 16OZ GJ, Unpres          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/15/2025 15:09           | 5 days | 7/24/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | SW8081 B (OC Pesticides) Low Level            |                 |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 5 days | 7/28/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
| 006A  | SB-03-10     | Soil   | SW6020/SW7471B (CAM 17 + Hg) †                | 1               | 16OZ GJ, Unpres          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/15/2025 15:09           | 5 days | 7/24/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | SW8270E (Low Level SVOCs) with<br>GPC Cleanup |                 |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 5 days | 7/28/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | SW8260D (VOCs)                                |                 |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 5 days | 7/24/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
| 006B  | SB-03-10     | Soil   | SW8000 (Percent Moisture)                     | 1               | 125mL HDPE,<br>unprsv.   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/15/2025 15:09           | 5 days | 7/24/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | E1633 Perfluorinated Compounds                |                 |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 5 days | 7/25/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
| 007A  | SB-04-1      | Soil   | SW6020/SW7471B (CAM 17 + Hg) †                | 1               | 16OZ GJ, Unpres          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/16/2025 10:40           | 5 days | 7/24/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | SW8270E (Low Level SVOCs) with<br>GPC Cleanup |                 |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 5 days | 7/28/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | SW8260D (VOCs)                                |                 |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 5 days | 7/24/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | SW8081 B (OC Pesticides) Low Level            |                 |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 5 days | 7/28/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |

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U\*\* = An unpreserved container was received for a method that suggests a preservation in order to extend hold time for analysis.

### TestGroup Definition:

† CAM 17 Metals (TTLC) without HG by 6020, HG by 7471



## WORK ORDER SUMMARY

**Client Name:** LANGAN  
**Client Contact:** Nelson Pi  
**Contact's Email:** npil@languan.com

**Project:** 770651908; Northtown Campus

**Work Order:** 2507B37

**QC Level:** LEVEL 2

**Date Logged:** 7/18/2025

**Comments**

☐ WaterTrax ☐ CLIP ☐ EDF ☐ Excel ☒ EQuIS ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

| LabID | ClientSampID | Matrix | Test Name                                     | Cont./<br>Comp. | Bottle &<br>Preservative | U**                      | Head<br>Space            | Dry-<br>Weight           | Collection Date<br>& Time | TAT    | Test Due Date | Sediment<br>Content | Hold                     | Sub<br>Out               |
|-------|--------------|--------|-----------------------------------------------|-----------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------|--------|---------------|---------------------|--------------------------|--------------------------|
| 008A  | SB-04-5      | Soil   | SW6020/SW7471B (CAM 17 + Hg) †                | 1               | 16OZ GJ, Unpres          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/16/2025 10:41           | 5 days | 7/24/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | SW8270E (Low Level SVOCs) with<br>GPC Cleanup |                 |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 5 days | 7/28/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | SW8260D (VOCs)                                |                 |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 5 days | 7/24/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
| 008B  | SB-04-5      | Soil   | SW8000 (Percent Moisture)                     | 1               | 125mL HDPE,<br>unprsv.   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/16/2025 10:41           | 5 days | 7/24/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | E1633 Perfluorinated Compounds                |                 |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 5 days | 7/25/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
| 009A  | SB-05-1      | Soil   | SW6020/SW7471B (CAM 17 + Hg) †                | 1               | 16OZ GJ, Unpres          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/16/2025 8:12            | 5 days | 7/24/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | SW8270E (Low Level SVOCs) with<br>GPC Cleanup |                 |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 5 days | 7/28/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | SW8260D (VOCs)                                |                 |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 5 days | 7/24/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | SW8081 B (OC Pesticides) Low Level            |                 |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 5 days | 7/28/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
| 010A  | SB-05-5      | Soil   | SW6020/SW7471B (CAM 17 + Hg) †                | 1               | 16OZ GJ, Unpres          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/16/2025 8:25            | 5 days | 7/24/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |

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### TestGroup Definition:

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## WORK ORDER SUMMARY

**Client Name:** LANGAN  
**Client Contact:** Nelson Pi  
**Contact's Email:** npa@langan.com

**Project:** 770651908; Northtown Campus

**Work Order:** 2507B37

**QC Level:** LEVEL 2

**Date Logged:** 7/18/2025

**Comments**

☐ WaterTrax ☐ CLIP ☐ EDF ☐ Excel ☒ EQuIS ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

| LabID | ClientSampID | Matrix | Test Name                                     | Cont./<br>Comp. | Bottle &<br>Preservative | U**                      | Head<br>Space            | Dry-<br>Weight           | Collection Date<br>& Time | TAT    | Test Due Date | Sediment<br>Content | Hold                     | Sub<br>Out               |
|-------|--------------|--------|-----------------------------------------------|-----------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------|--------|---------------|---------------------|--------------------------|--------------------------|
| 010A  | SB-05-5      | Soil   | SW8270E (Low Level SVOCs) with<br>GPC Cleanup | 1               | 16OZ GJ, Unpres          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/16/2025 8:25            | 5 days | 7/28/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | SW8260D (VOCs)                                |                 |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 5 days | 7/24/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
| 010B  | SB-05-5      | Soil   | SW8000 (Percent Moisture)                     | 1               | 125mL HDPE,<br>unprsv.   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/16/2025 8:25            | 5 days | 7/24/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | E1633 Perfluorinated Compounds                |                 |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 5 days | 7/25/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
| 011A  | SB-06-1.5    | Soil   | SW6020/SW7471B (CAM 17 + Hg) †                | 1               | 16OZ GJ, Unpres          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/16/2025 14:00           | 5 days | 7/24/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | SW8270E (Low Level SVOCs) with<br>GPC Cleanup |                 |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 5 days | 7/28/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | SW8260D (VOCs)                                |                 |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 5 days | 7/24/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | SW8081 B (OC Pesticides) Low Level            |                 |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 5 days | 7/28/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
| 012A  | SB-06-5      | Soil   | SW6020/SW7471B (CAM 17 + Hg) †                | 1               | 16OZ GJ, Unpres          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/16/2025 13:57           | 5 days | 7/24/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | SW8270E (Low Level SVOCs) with<br>GPC Cleanup |                 |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 5 days | 7/28/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |

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### TestGroup Definition:

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## WORK ORDER SUMMARY

**Client Name:** LANGAN  
**Client Contact:** Nelson Pi  
**Contact's Email:** npj@languan.com

**Project:** 770651908; Northtown Campus

**Work Order:** 2507B37

**QC Level:** LEVEL 2

**Date Logged:** 7/18/2025

**Comments**

☐ WaterTrax ☐ CLIP ☐ EDF ☐ Excel ☒ EQuIS ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

| LabID | ClientSampID | Matrix | Test Name                                     | Cont./<br>Comp. | Bottle &<br>Preservative | U**                      | Head<br>Space            | Dry-<br>Weight           | Collection Date<br>& Time | TAT    | Test Due Date | Sediment<br>Content | Hold                     | Sub<br>Out               |
|-------|--------------|--------|-----------------------------------------------|-----------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------|--------|---------------|---------------------|--------------------------|--------------------------|
| 012A  | SB-06-5      | Soil   | SW8260D (VOCs)                                | 1               | 16OZ GJ, Unpres          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/16/2025 13:57           | 5 days | 7/24/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
| 012B  | SB-06-5      | Soil   | SW8000 (Percent Moisture)                     | 1               | 125mL HDPE,<br>unprsv.   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/16/2025 13:57           | 5 days | 7/24/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | E1633 Perfluorinated Compounds                |                 |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 5 days | 7/25/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
| 013A  | SB-07-1      | Soil   | SW6020/SW7471B (CAM 17 + Hg) †                | 1               | 16OZ GJ, Unpres          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/16/2025 13:25           | 5 days | 7/24/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | SW8270E (Low Level SVOCs) with<br>GPC Cleanup |                 |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 5 days | 7/28/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | SW8260D (VOCs)                                |                 |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 5 days | 7/24/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | SW8081 B (OC Pesticides) Low Level            |                 |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 5 days | 7/28/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
| 014A  | SB-07-5      | Soil   | SW6020/SW7471B (CAM 17 + Hg) †                | 1               | 16OZ GJ, Unpres          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/16/2025 13:23           | 5 days | 7/24/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | SW8270E (Low Level SVOCs) with<br>GPC Cleanup |                 |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 5 days | 7/28/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | SW8260D (VOCs)                                |                 |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 5 days | 7/24/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |

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### TestGroup Definition:

† CAM 17 Metals (TTLC) without HG by 6020, HG by 7471



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## WORK ORDER SUMMARY

**Client Name:** LANGAN  
**Client Contact:** Nelson Pi  
**Contact's Email:** npil@languan.com

**Project:** 770651908; Northtown Campus

**Work Order:** 2507B37

**QC Level:** LEVEL 2

**Date Logged:** 7/18/2025

**Comments**

☐ WaterTrax ☐ CLIP ☐ EDF ☐ Excel ☒ EQuIS ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

| LabID | ClientSampID | Matrix | Test Name                                     | Cont./<br>Comp. | Bottle &<br>Preservative | U**                      | Head<br>Space            | Dry-<br>Weight           | Collection Date<br>& Time | TAT    | Test Due Date | Sediment<br>Content | Hold                     | Sub<br>Out               |
|-------|--------------|--------|-----------------------------------------------|-----------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------|--------|---------------|---------------------|--------------------------|--------------------------|
| 014B  | SB-07-5      | Soil   | SW8000 (Percent Moisture)                     | 1               | 125mL HDPE,<br>unprsv.   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/16/2025 13:23           | 5 days | 7/24/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | E1633 Perfluorinated Compounds                |                 |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 5 days | 7/25/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
| 015A  | SB-08-1      | Soil   | SW6020/SW7471B (CAM 17 + Hg) †                | 1               | 16OZ GJ, Unpres          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/16/2025 11:35           | 5 days | 7/24/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | SW8270E (Low Level SVOCs) with<br>GPC Cleanup |                 |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 5 days | 7/28/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | SW8260D (VOCs)                                |                 |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 5 days | 7/24/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | SW8081 B (OC Pesticides) Low Level            |                 |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 5 days | 7/28/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
| 016A  | SB-08-5      | Soil   | SW6020/SW7471B (CAM 17 + Hg) †                | 1               | 16OZ GJ, Unpres          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/16/2025 11:32           | 5 days | 7/24/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | SW8270E (Low Level SVOCs) with<br>GPC Cleanup |                 |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 5 days | 7/28/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | SW8260D (VOCs)                                |                 |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 5 days | 7/24/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
| 016B  | SB-08-5      | Soil   | SW8000 (Percent Moisture)                     | 1               | 125mL HDPE,<br>unprsv.   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/16/2025 11:32           | 5 days | 7/24/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |

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### TestGroup Definition:

† CAM 17 Metals (TTLC) without HG by 6020, HG by 7471



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"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701  
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269  
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

## WORK ORDER SUMMARY

**Client Name:** LANGAN  
**Client Contact:** Nelson Pi  
**Contact's Email:** npj@languan.com

**Project:** 770651908; Northtown Campus

**Work Order:** 2507B37

**QC Level:** LEVEL 2

**Date Logged:** 7/18/2025

**Comments**

☐ WaterTrax ☐ CLIP ☐ EDF ☐ Excel ☒ EQuIS ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

| LabID | ClientSampID | Matrix | Test Name                                  | Cont./Comp. | Bottle & Preservative | U**                      | Head Space               | Dry-Weight               | Collection Date & Time | TAT    | Test Due Date | Sediment Content | Hold                     | Sub Out                  |
|-------|--------------|--------|--------------------------------------------|-------------|-----------------------|--------------------------|--------------------------|--------------------------|------------------------|--------|---------------|------------------|--------------------------|--------------------------|
| 016B  | SB-08-5      | Soil   | E1633 Perfluorinated Compounds             | 1           | 125mL HDPE, unprsv.   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/16/2025 11:32        | 5 days | 7/25/2025     |                  | <input type="checkbox"/> | <input type="checkbox"/> |
| 017A  | SB-09-1      | Soil   | SW6020/SW7471B (CAM 17 + Hg) †             | 1           | 16OZ GJ, Unpres       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/16/2025 11:56        | 5 days | 7/24/2025     |                  | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | SW8270E (Low Level SVOCs) with GPC Cleanup |             |                       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                        | 5 days | 7/28/2025     |                  | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | SW8260D (VOCs)                             |             |                       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                        | 5 days | 7/24/2025     |                  | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | SW8081 B (OC Pesticides) Low Level         |             |                       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                        | 5 days | 7/28/2025     |                  | <input type="checkbox"/> | <input type="checkbox"/> |
| 018A  | SB-09-5      | Soil   | SW6020/SW7471B (CAM 17 + Hg) †             | 1           | 16OZ GJ, Unpres       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/16/2025 11:53        | 5 days | 7/24/2025     |                  | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | SW8270E (Low Level SVOCs) with GPC Cleanup |             |                       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                        | 5 days | 7/28/2025     |                  | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | SW8260D (VOCs)                             |             |                       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                        | 5 days | 7/24/2025     |                  | <input type="checkbox"/> | <input type="checkbox"/> |
| 018B  | SB-09-5      | Soil   | SW8000 (Percent Moisture)                  | 1           | 125mL HDPE, unprsv.   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/16/2025 11:53        | 5 days | 7/24/2025     |                  | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | E1633 Perfluorinated Compounds             |             |                       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                        | 5 days | 7/25/2025     |                  | <input type="checkbox"/> | <input type="checkbox"/> |

**NOTES:** \* STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- ISM prep requires 5 to 10 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 6 to 11 days from sample submission). Due date listed on WO summary will not accurately reflect the time needed for sample preparation.

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† CAM 17 Metals (TTLC) without HG by 6020, HG by 7471



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## WORK ORDER SUMMARY

**Client Name:** LANGAN  
**Client Contact:** Nelson Pi  
**Contact's Email:** npa@languan.com

**Project:** 770651908; Northtown Campus

**Work Order:** 2507B37

**QC Level:** LEVEL 2

**Date Logged:** 7/18/2025

**Comments**

☐ WaterTrax ☐ CLIP ☐ EDF ☐ Excel ☒ EQuIS ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

| LabID | ClientSampID | Matrix | Test Name                                     | Cont./<br>Comp. | Bottle &<br>Preservative | U**                      | Head<br>Space            | Dry-<br>Weight           | Collection Date<br>& Time | TAT    | Test Due Date | Sediment<br>Content | Hold                     | Sub<br>Out               |
|-------|--------------|--------|-----------------------------------------------|-----------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------|--------|---------------|---------------------|--------------------------|--------------------------|
| 019A  | SB-04-8.5    | Soil   | SW6020/SW7471B (CAM 17 + Hg) †                | 1               | 16OZ GJ, Unpres          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/16/2025 10:46           | 5 days | 7/24/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | SW8270E (Low Level SVOCs) with<br>GPC Cleanup |                 |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 5 days | 7/28/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | SW8260D (VOCs)                                |                 |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 5 days | 7/24/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
| 019B  | SB-04-8.5    | Soil   | SW8000 (Percent Moisture)                     | 1               | 125mL HDPE,<br>unprsv.   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/16/2025 10:46           | 5 days | 7/24/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | E1633 Perfluorinated Compounds                |                 |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 5 days | 7/25/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
| 020A  | SB-04-10     | Soil   | SW6020/SW7471B (CAM 17 + Hg) †                | 1               | 16OZ GJ, Unpres          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/16/2025 9:12            | 5 days | 7/24/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | SW8270E (Low Level SVOCs) with<br>GPC Cleanup |                 |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 5 days | 7/28/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | SW8260D (VOCs)                                |                 |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 5 days | 7/24/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
| 020B  | SB-04-10     | Soil   | SW8000 (Percent Moisture)                     | 1               | 125mL HDPE,<br>unprsv.   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/16/2025 9:12            | 5 days | 7/24/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | E1633 Perfluorinated Compounds                |                 |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 5 days | 7/25/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |

**NOTES:** \* STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

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## WORK ORDER SUMMARY

**Client Name:** LANGAN  
**Client Contact:** Nelson Pi  
**Contact's Email:** npa@langu.com

**Project:** 770651908; Northtown Campus

**Work Order:** 2507B37

**QC Level:** LEVEL 2

**Date Logged:** 7/18/2025

**Comments**

☐ WaterTrax ☐ CLIP ☐ EDF ☐ Excel ☒ EQulS ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

| LabID | ClientSampID | Matrix | Test Name                                     | Cont./<br>Comp. | Bottle &<br>Preservative | U**                      | Head<br>Space            | Dry-<br>Weight           | Collection Date<br>& Time | TAT    | Test Due Date | Sediment<br>Content | Hold                     | Sub<br>Out               |
|-------|--------------|--------|-----------------------------------------------|-----------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------|--------|---------------|---------------------|--------------------------|--------------------------|
| 021A  | SB-08-3      | Soil   | SW6020/SW7471B (CAM 17 + Hg) †                | 1               | 16OZ GJ, Unpres          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/16/2025 11:38           | 5 days | 7/24/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | SW8270E (Low Level SVOCs) with<br>GPC Cleanup |                 |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 5 days | 7/28/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | SW8260D (VOCs)                                |                 |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 5 days | 7/24/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
| 021B  | SB-08-3      | Soil   | SW8000 (Percent Moisture)                     | 1               | 125mL HDPE,<br>unprsv.   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/16/2025 11:38           | 5 days | 7/24/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |
|       |              |        | E1633 Perfluorinated Compounds                |                 |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                           | 5 days | 7/25/2025     |                     | <input type="checkbox"/> | <input type="checkbox"/> |

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† CAM 17 Metals (TTLC) without HG by 6020, HG by 7471



# LANGAN

## CHAIN OF CUSTODY RECORD

Page 1 of 2

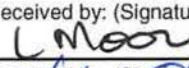
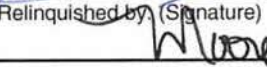
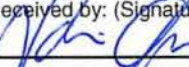
|                                     |                                                                                         |
|-------------------------------------|-----------------------------------------------------------------------------------------|
| <input type="checkbox"/>            | 135 Main Street, Suite 1500, San Francisco, CA 94105 Ph: 415.955.5200/Fax: 415.955.5201 |
| <input checked="" type="checkbox"/> | 1 S Almaden Blvd, Suite 590, San Jose, 95113 Ph: 408.283.3600/Fax: 408.283.3601         |
| <input type="checkbox"/>            | 3320 Data Drive, Suite 350 Rancho Cordova, CA 95670 Ph: 916.476.6790/Fax: 916.476.6792  |

Site Name: Northtown Campus  
Job Number: 770651908

Project Manager/Contact: Nelson Pi  
 Samplers: Wilma Wei / Dulce M Rodriguez Rivera

Recorder (Signature Required): Dulce M Rodriguez Rivera

|                                                            |                                  |
|------------------------------------------------------------|----------------------------------|
| Recorder (Signature Required):<br>Dulce M Rodriguez Rivera | No. Containers<br>& Preservative |
|------------------------------------------------------------|----------------------------------|

| Field Sample Identification No.                                                     | Date    | Time | Lab Sample No.                                                                                                                                                                                                                           | Soil | Water | Other                                                                                 | HCL | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> | Ice  | Other | OCs w/ Cle | CAM 17 Met | VOCs (8260) | SVOCs w/ C | PFAS (1633) | Hold | Remarks                |
|-------------------------------------------------------------------------------------|---------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|---------------------------------------------------------------------------------------|-----|--------------------------------|------------------|------|-------|------------|------------|-------------|------------|-------------|------|------------------------|
| SB-01-1                                                                             | 7/15/25 | 1211 |                                                                                                                                                                                                                                          | X    |       |                                                                                       |     |                                |                  | X    |       | X          | X          | X           | X          |             |      | *5day RUSH for PFAS    |
| SB-01-9.5                                                                           | 7/15/25 | 1242 |                                                                                                                                                                                                                                          | X    |       |                                                                                       |     |                                |                  | X    |       |            | X          | X           | X          | X           |      | per email. 7/18/25 VA. |
| SB-02-1                                                                             | 7/15/25 | 0929 |                                                                                                                                                                                                                                          | X    |       |                                                                                       |     |                                |                  | X    |       | X          | X          | X           | X          |             |      |                        |
| SB-02-10                                                                            | 7/15/25 | 0959 |                                                                                                                                                                                                                                          | X    |       |                                                                                       |     |                                |                  | X    |       |            | X          | X           | X          | X           |      |                        |
| SB-03-1                                                                             | 7/15/25 | 1509 |                                                                                                                                                                                                                                          | X    |       |                                                                                       |     |                                |                  | X    |       | X          | X          | X           | X          |             |      |                        |
| SB-03-10                                                                            | 7/15/25 | 1509 |                                                                                                                                                                                                                                          | X    |       |                                                                                       |     |                                |                  | X    |       |            | X          | X           | X          | X           |      |                        |
| SB-04-1                                                                             | 7/16/25 | 1040 |                                                                                                                                                                                                                                          | X    |       |                                                                                       |     |                                |                  | X    |       | X          | X          | X           | X          |             |      |                        |
| SB-04-5                                                                             |         | 1041 |                                                                                                                                                                                                                                          | X    |       |                                                                                       |     |                                |                  | X    |       |            | X          | X           | X          | X           |      |                        |
| SB-05-1                                                                             |         | 0812 |                                                                                                                                                                                                                                          | X    |       |                                                                                       |     |                                |                  | X    |       | X          | X          | X           | X          |             |      |                        |
| SB-05-5                                                                             |         | 0825 |                                                                                                                                                                                                                                          | X    |       |                                                                                       |     |                                |                  | X    |       |            | X          | X           | X          | X           |      |                        |
| SB-06-1.5                                                                           |         | 1400 |                                                                                                                                                                                                                                          | X    |       |                                                                                       |     |                                |                  | X    |       | X          | X          | X           | X          |             |      |                        |
| SB-06-5                                                                             |         | 1357 |                                                                                                                                                                                                                                          | X    |       |                                                                                       |     |                                |                  | X    |       |            | X          | X           | X          | X           |      |                        |
| SB-07-1                                                                             |         | 1325 |                                                                                                                                                                                                                                          | X    |       |                                                                                       |     |                                |                  | X    |       | X          | X          | X           | X          |             |      |                        |
| SB-07-5                                                                             |         | 1323 |                                                                                                                                                                                                                                          | X    |       |                                                                                       |     |                                |                  | X    |       |            | X          | X           | X          | X           |      |                        |
| Relinquished by: (Signature)                                                        |         |      | Date                                                                                                                                                                                                                                     | Time |       | Received by: (Signature)                                                              |     |                                | Date             | Time |       |            |            |             |            |             |      |                        |
|  |         |      | 7/17/25                                                                                                                                                                                                                                  | 1056 |       |  |     |                                | 7/17/25          | 1100 |       |            |            |             |            |             |      |                        |
| Relinquished by: (Signature)                                                        |         |      | Date                                                                                                                                                                                                                                     | Time |       | Received by: (Signature)                                                              |     |                                | Date             | Time |       |            |            |             |            |             |      |                        |
|  |         |      | 7/17/25                                                                                                                                                                                                                                  | 1440 |       |  |     |                                | 7/17/25          | 1440 |       |            |            |             |            |             |      |                        |
| Relinquished by: (Signature)                                                        |         |      | Date                                                                                                                                                                                                                                     | Time |       | Received by Lab: (Signature)                                                          |     |                                | Date             | Time |       |            |            |             |            |             |      |                        |
|                                                                                     |         |      |                                                                                                                                                                                                                                          |      |       |                                                                                       |     |                                |                  |      |       |            |            |             |            |             |      |                        |
| Sent to Laboratory (Name):                                                          |         |      | Method of Shipment                                                                                                                                                                                                                       |      |       |                                                                                       |     |                                |                  |      |       |            |            |             |            |             |      |                        |
| Laboratory Comments/Notes:                                                          |         |      | <input checked="" type="checkbox"/> Lab courier <input type="checkbox"/> Fed Ex <input type="checkbox"/> Airborne <input type="checkbox"/> UPS <input type="checkbox"/> Hand Carried <input type="checkbox"/> Private Courier (Co. Name) |      |       |                                                                                       |     |                                |                  |      |       |            |            |             |            |             |      |                        |

White Copy - Original

Yellow Copy - Laboratory

Pink Copy - Field

COC Number: 1.4.4.4

# LANGAN

## CHAIN OF CUSTODY RECORD

Page 2 of 2

|                                     |                                                                                         |
|-------------------------------------|-----------------------------------------------------------------------------------------|
| <input type="checkbox"/>            | 135 Main Street, Suite 1500, San Francisco, CA 94105 Ph: 415.955.5200/Fax: 415.955.5201 |
| <input checked="" type="checkbox"/> | 1 S Almaden Blvd, Suite 590, San Jose, 95113 Ph: 408.283.3600/Fax: 408.283.3601         |
| <input type="checkbox"/>            | 3320 Data Drive, Suite 350 Rancho Cordova, CA 95670 Ph: 916.476.6790/Fax: 916.476.6792  |

Site Name: Northtown Campus  
Job Number: 770651908

Project Manager\Contact: Nelson Pi

**Samplers:** Wilma Wei / Dulce M Rodriguez Rivera

Recorder (Signature Required): 

Dulce M Rodriguez Rivera

No. Containers

|        |                |
|--------|----------------|
| Matrix | & Preservative |
|--------|----------------|

**Analysis Requested**

Turnaround  
Time  
Std 5-Day

[illegible]

|                                                                                     |         |      |
|-------------------------------------------------------------------------------------|---------|------|
| Relinquished by: (Signature)                                                        | Date    | Time |
|  | 7/17/25 | 1056 |

|                             |              |           |
|-----------------------------|--------------|-----------|
| Relinquished by (Signature) | Date 3/17/25 | Time 1445 |
|-----------------------------|--------------|-----------|

|                              |      |      |
|------------------------------|------|------|
| Relinquished by: (Signature) | Date | Time |
|------------------------------|------|------|

|                                      |                 |              |
|--------------------------------------|-----------------|--------------|
| Received by: (Signature)<br>L. Mason | Date<br>7/17/25 | Time<br>1:10 |
|--------------------------------------|-----------------|--------------|

|                          |         |      |
|--------------------------|---------|------|
| Received by: (Signature) | Date    | Time |
| <i>[Signature]</i>       | 7/17/25 | 1440 |

|                              |      |      |
|------------------------------|------|------|
| Received by Lab: (Signature) | Date | Time |
|------------------------------|------|------|

Sent to Laboratory (Name): McCannobell

Laboratory Comments/Notes: Please provide Langan w/ EDOs  
email report to npi@langan.com

**Method of Shipment** ☒ Lab courier ☐ Fed Ex ☐ Airborne ☐ UPS

☐ Hand Carried ☐ Private Courier (Co. Name) \_\_\_\_\_

White Copy - Original

Yellow Copy - Laboratory

Pink Copy - Field

COC Number:





## Sample Receipt Checklist

Client Name: Langan  
Project: 770651908; Northtown Campus  
  
WorkOrder №: 2507B37 Matrix: Soil  
Carrier: Laurie Moore (MAI Courier)

Date and Time Received: 7/17/2025 14:40  
Date Logged: 7/18/2025  
Received by: Valerie Alfaro  
Logged by: Valerie Alfaro

### Chain of Custody (COC) Information

|                                                         |                                         |                             |                                        |
|---------------------------------------------------------|-----------------------------------------|-----------------------------|----------------------------------------|
| Chain of custody present?                               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                        |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                        |
| Chain of custody agrees with sample labels?             | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                        |
| Sample IDs noted by Client on COC?                      | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                        |
| Date and Time of collection noted by Client on COC?     | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                        |
| Sampler's name noted on COC?                            | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                        |
| COC agrees with Quote?                                  | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| COC quote NOT expired?                                  | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |

### Sample Receipt Information

|                                                    |                                         |                             |                                        |
|----------------------------------------------------|-----------------------------------------|-----------------------------|----------------------------------------|
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles?            | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| Shipping container/cooler in good condition?       | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                        |
| Samples in proper containers/bottles?              | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                        |
| Sample containers intact?                          | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                        |
| Sufficient sample volume for indicated test?       | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                        |

### Sample Preservation and Hold Time (HT) Information

|                                           |                                         |                             |                             |
|-------------------------------------------|-----------------------------------------|-----------------------------|-----------------------------|
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| Samples Received on Ice?                  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                             |

(Ice Type: WET ICE )

|                                                                                        |                                         |                             |                                        |
|----------------------------------------------------------------------------------------|-----------------------------------------|-----------------------------|----------------------------------------|
| Sample/Temp Blank temperature                                                          |                                         | Temp: 0.4°C                 | NA <input type="checkbox"/>            |
| ZHS conditional analyses: VOA meets zero headspace requirement (VOCs, TPHg/BTEX, RSK)? | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| Sample labels checked for correct preservation?                                        | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                                        |
| pH acceptable upon receipt (Metal: <2)?                                                | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |

### UCMR Samples:

|                                                                                        |                              |                             |                                        |
|----------------------------------------------------------------------------------------|------------------------------|-----------------------------|----------------------------------------|
| pH tested and acceptable upon receipt (200.7: ≤2; 533: 6 - 8; 537.1: 6 - 8)?           | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| Free Chlorine tested and acceptable upon receipt (<0.1mg/L) [not applicable to 200.7)? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |

Comments:



# McC Campbell Analytical, Inc.

"When Quality Counts"

## Analytical Report

**WorkOrder:** 2507B65 A

**Report Created for:** Langan

1 Almaden Blvd, Suite 590  
San Jose, CA 95113

**Project Contact:** Nelson Pi

**Project P.O.:**

**Project:** 770651908; Northtown Campus

**Project Location:**

**Project Received:** 07/17/2025

Analytical Report reviewed & approved for release on 08/07/2025 by:

*Yen Cao*

Yen Cao  
Project Manager

*The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current regulatory standards, where applicable, unless otherwise stated.*





## Glossary of Terms & Qualifier Definitions

**Client:** Langan

**WorkOrder:** 2507B65 A

**Project:** 770651908; Northtown Campus

### Glossary Abbreviation

|                |                                                                                                        |
|----------------|--------------------------------------------------------------------------------------------------------|
| %D             | Serial Dilution Percent Difference                                                                     |
| 95% Interval   | 95% Confident Interval                                                                                 |
| CCV            | Continuing Calibration Verification.                                                                   |
| CCV REC (%)    | % recovery of Continuing Calibration Verification.                                                     |
| CPT            | Consumer Product Testing not NELAP Accredited                                                          |
| DF             | Dilution Factor                                                                                        |
| DI WET         | (DISTLC) Waste Extraction Test using DI water                                                          |
| DISS           | Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)                             |
| DLT            | Dilution Test (Serial Dilution)                                                                        |
| DUP            | Duplicate                                                                                              |
| EDL            | Estimated Detection Limit                                                                              |
| ERS            | External reference sample. Second source calibration verification.                                     |
| ITEF           | International Toxicity Equivalence Factor                                                              |
| LCS            | Laboratory Control Sample                                                                              |
| LCS2           | Second LCS for the batch. Spike level is lower than that for the first LCS; applicable to method 1633. |
| LQL            | Lowest Quantitation Level                                                                              |
| MB             | Method Blank                                                                                           |
| MB IS/SS % Rec | % Recovery of Internal Standard or Surrogate in Method Blank, if applicable                            |
| MB SS % Rec    | % Recovery of Surrogate in Method Blank, if applicable                                                 |
| MDL            | Method Detection Limit <sup>1</sup>                                                                    |
| ML             | Minimum Level of Quantitation                                                                          |
| MS             | Matrix Spike                                                                                           |
| MSD            | Matrix Spike Duplicate                                                                                 |
| NA             | Not Applicable                                                                                         |
| ND             | Not detected at or above the indicated MDL or RL                                                       |
| NR             | Data Not Reported due to matrix interference or insufficient sample amount.                            |
| PDS            | Post Digestion Spike                                                                                   |
| PF             | Prep Factor                                                                                            |
| RD             | Relative Difference                                                                                    |
| RL             | Reporting Limit <sup>2</sup>                                                                           |
| RPD            | Relative Percent Difference                                                                            |
| RRT            | Relative Retention Time                                                                                |
| RSD            | Relative Standard Deviation                                                                            |
| SNR            | Surrogate is diluted out of the calibration range                                                      |

<sup>1</sup> MDL is the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. Definition and Procedure for the Determination of the Method Detection Limit, Revision 2, 40CFR, Part 136, Appendix B, EPA 821-R-16-006, December 2016. Values are based upon our default extraction volume/amount and are subject to change.

<sup>2</sup> RL is the lowest level that can be reliably determined within specified limits of precision and accuracy during routine laboratory operating conditions. (The RL cannot be lower than the lowest calibration standard used in the initial calibration of the instrument and must be greater than the MDL.) Values are based upon our default extraction volume/amount and are subject to change.



## Glossary of Terms & Qualifier Definitions

**Client:** Langan

**WorkOrder:** 2507B65 A

**Project:** 770651908; Northtown Campus

|            |                                                                                                                                                    |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| SPK Val    | Spike Value                                                                                                                                        |
| SPKRef Val | Spike Reference Value                                                                                                                              |
| SPLP       | Synthetic Precipitation Leachate Procedure                                                                                                         |
| ST         | Sorbent Tube                                                                                                                                       |
| TCLP       | Toxicity Characteristic Leachate Procedure                                                                                                         |
| TEQ        | Toxicity Equivalents                                                                                                                               |
| TNTC       | "Too Numerous to Count;" greater than 250 colonies observed on the plate.                                                                          |
| TZA        | TimeZone Net Adjustment for sample collected outside of MAI's Coordinated Universal Time (UTC). (Adjustment for Daylight Saving is not accounted.) |
| WET (STLC) | Waste Extraction Test (Soluble Threshold Limit Concentration)                                                                                      |



## Analytical Report

**Client:** Langan  
**Date Received:** 07/17/2025 14:40  
**Date Prepared:** 08/04/2025  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**Extraction Method:** CA Title 22  
**Analytical Method:** SW6020  
**Unit:** mg/L

### Metals (STLC)

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument        | Batch ID |
|-----------|--------------|--------|------------------|-------------------|----------|
| IDW-1     | 2507B65-001A | Soil   | 07/16/2025 14:15 | ICP-MS5 233SMPL.d | 322749   |

| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>DE</u> | <u>Date Analyzed</u> |
|-----------------|---------------|-----------|-----------|----------------------|
| Chromium        | 0.18          | 0.10      | 1         | 08/04/2025 23:31     |

Analyst(s): DB



## Quality Control Report

**Client:** Langan  
**Date Prepared:** 08/04/2025  
**Date Analyzed:** 08/04/2025  
**Instrument:** ICP-MS6  
**Matrix:** Soil  
**Project:** 770651908; Northtown Campus

**WorkOrder:** 2507B65  
**BatchID:** 322749  
**Extraction Method:** CA Title 22  
**Analytical Method:** SW6020  
**Unit:** mg/L  
**Sample ID:** MB/LCS/LCSD-322749

### QC Summary Report for Metals (STLC)

| Analyte  | MB<br>Result | MDL  | RL   |   |   |   |
|----------|--------------|------|------|---|---|---|
| Chromium | ND           | 0.10 | 0.10 | - | - | - |

| Analyte  | LCS<br>Result | LCSD<br>Result | SPK<br>Val | LCS<br>%REC | LCSD<br>%REC | LCS/LCSD<br>Limits | RPD   | RPD<br>Limit |
|----------|---------------|----------------|------------|-------------|--------------|--------------------|-------|--------------|
| Chromium | 10            | 10             | 10         | 101         | 101          | 75-125             | 0.655 | 20           |



## Certified Analyte List

**Client:** Langan

**WorkOrder:** 2507B65 A

**Project:** 770651908; Northtown Campus

| Analyte  | Cert 1                           | Cert 2                           | Cert 3                | Cert 4                | Cert 5                | Analytical Method | Matrix |
|----------|----------------------------------|----------------------------------|-----------------------|-----------------------|-----------------------|-------------------|--------|
| Chromium | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | SW6020            | Soil   |

### Certifications

Cert 1 CA ELAP 1644

Cert 2 ORELAP (NELAP) 4033

The Certified Analyte Report lists the compounds for which MAI is accredited at the time of issuance. Although MAI holds multiple accreditations, methods with extensive compound lists may not be fully accredited due to state agency availability.



1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 2507B65 A

ClientCode: TRSJ

☐ WaterTrax

☐ CLIP

☐ EDF

☒ EQUIS

☐ Dry-Weight

☒ Email

☐ HardCopy

☐ ThirdParty

☐ J-flag

☐ Detection Summary

☐ Excel

**Report to:**

Nelson Pi  
Langan  
1 Almaden Blvd, Suite 590  
San Jose, CA 95113  
407-494-8451 FAX:

Email: npi@langan.com  
cc/3rd Party: drodriguez@Langan.com; wwwei@langan.co  
PO:  
Project: 770651908; Northtown Campus

**Bill to:**

Accounts Payable  
Langan  
135 Main St, Suite 1500  
San Francisco, CA 94105  
Langan\_InvoiceCapture@concursolution

**Requested TAT:**

**5 days;**

*Date Received:* **07/17/2025**

*Date Logged:* **07/18/2025**

*Date Add-On:* **07/29/2025**

| Lab ID      | ClientSampleID | Matrix | Collection Date | Hold                     | Requested Tests (See legend below) |   |   |   |   |   |   |   |   |    |    |    |
|-------------|----------------|--------|-----------------|--------------------------|------------------------------------|---|---|---|---|---|---|---|---|----|----|----|
|             |                |        |                 |                          | 1                                  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 2507B65-001 | IDW-1          | Soil   | 7/16/2025 14:15 | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |

**Test Legend:**

|   |                 |    |  |    |  |    |  |
|---|-----------------|----|--|----|--|----|--|
| 1 | METALSMS_STLC_S | 2  |  | 3  |  | 4  |  |
| 5 |                 | 6  |  | 7  |  | 8  |  |
| 9 |                 | 10 |  | 11 |  | 12 |  |

**Prepared by: Valerie Alfaro**

**Add-On Prepared By: Valerie Alfaro**

**Comments:** Added STLC Cr to sample 001 7/29/2025 STAT.

NOTE: Soil samples are discarded 60 days after receipt unless other arrangements are made (Water samples are 30 days).  
Hazardous samples will be returned to client or disposed of at client expense.





McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701  
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269  
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

## WORK ORDER SUMMARY

**Client Name:** LANGAN

**Client Contact:** Nelson Pi

**Contact's Email** npil@languan.com

**Project:** 770651908; Northtown Campus

**Comments:** Added STLC Cr to sample 001 7/29/2025 STAT.

**Work Order:** 2507B65

**QC Level:** LEVEL 2

**Date Logged:** 7/18/2025

**Date Add-On:** 7/29/2025

| LabID | ClientSampID | Matrix | Test Name                         | Cont.<br>/Comp | Bottle &<br>Preservative | U**                      | Head<br>Space            | Dry-<br>Weight           | Collection Date<br>& Time | TAT     | Test Due Date | Sediment<br>Content | Hold                     | Sub<br>Out               |
|-------|--------------|--------|-----------------------------------|----------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------|---------|---------------|---------------------|--------------------------|--------------------------|
| 001A  | IDW-1        | Soil   | SW6020 (Metals) (STLC) <Chromium> | 1              | 16OZ GJ, Unpres          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7/16/2025 14:15           | 5 days* | 8/7/2025      |                     | <input type="checkbox"/> | <input type="checkbox"/> |

**NOTES:** \* STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- ISM prep requires 5 to 10 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 6 to 11 days from sample submission). Due date listed on WO summary will not accurately reflect the time needed for sample preparation.

- Organic extracts are held for 40 days before disposal; Inorganic extract are held for 30 days.

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

U\*\* = An unpreserved container was received for a method that suggests a preservation in order to extend hold time for analysis.

# LANGAN

## CHAIN OF CUSTODY RECORD

Page 1 of 1

|                                     |                                                                                         |
|-------------------------------------|-----------------------------------------------------------------------------------------|
| <input type="checkbox"/>            | 135 Main Street, Suite 1500, San Francisco, CA 94105 Ph: 415.955.5200/Fax: 415.955.5201 |
| <input checked="" type="checkbox"/> | 1 S Almaden Blvd, Suite 590, San Jose, 95113 Ph: 408.283.3600/Fax: 408.283.3601         |
| <input type="checkbox"/>            | 3320 Data Drive, Suite 350 Rancho Cordova, CA 95670 Ph: 916.476.6790/Fax: 916.476.6792  |

Site Name: Northtown Campus  
Job Number: 770651908

Project Manager/Contact: Nelson Pi  
 Samplers: Nelson Pi Wilma Wei Dulce Rodriguez Rivera  
 Recorder (Signature Required): *Dulce Rodriguez Rivera* No. Containers: 1  
 Matrix: 1 & Preservation: 1

### Analysis Requested

Turnaround  
Time  
Std 5-Day

| Field Sample Identification No.                                    |         | Date | Time | Lab Sample No. | Matrix                                                                                    |       |       | & Preservative |                                |                                                                                                                                                |     |       | PFAS (1633) | VOCs (8260) | SVOCs (8270) | TPH (8015) | CAM 17 Metals (6) | PAHs (8270C) | OCPs (8081) | Silica gel clean | Hold | Remarks |                                                                                |
|--------------------------------------------------------------------|---------|------|------|----------------|-------------------------------------------------------------------------------------------|-------|-------|----------------|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------|-------------|-------------|--------------|------------|-------------------|--------------|-------------|------------------|------|---------|--------------------------------------------------------------------------------|
|                                                                    |         |      |      |                | Soil                                                                                      | Water | Other | HCL            | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub>                                                                                                                               | Ice | Other |             |             |              |            |                   |              |             |                  |      |         |                                                                                |
| IDW-1                                                              | 7/16/25 | 1415 |      |                | X                                                                                         |       |       |                |                                |                                                                                                                                                |     |       | X           | X           | X            | X          | X                 | X            | X           | X                |      |         | * Please filter samples                                                        |
| IDW-2                                                              | 7/16/25 | 1423 |      |                |                                                                                           | X     |       |                |                                |                                                                                                                                                |     |       | X           | X           | X            | X          | X                 | X            | X           | X                |      |         | * Solay PUSH for PFAS per email. VA. 7/18/25                                   |
|                                                                    |         |      |      |                |                                                                                           |       |       |                |                                |                                                                                                                                                |     |       |             |             |              |            |                   |              |             |                  |      |         | * cannot filter do to being in HNO <sub>3</sub> container & sample pH < 2. VA. |
|                                                                    |         |      |      |                |                                                                                           |       |       |                |                                |                                                                                                                                                |     |       |             |             |              |            |                   |              |             |                  |      |         | Added 7/29/25 STAT                                                             |
| Relinquished by: (Signature)                                       |         |      |      |                | Date                                                                                      |       | Time  |                | Received by: (Signature)       |                                                                                                                                                |     |       |             | Date        |              | Time       |                   |              |             |                  |      |         |                                                                                |
|                                                                    |         |      |      |                | 7/17/25                                                                                   |       | 1056  |                |                                |                                                                                                                                                |     |       |             | 7/17/25     |              | 1100       |                   |              |             |                  |      |         |                                                                                |
| Relinquished by: (Signature)                                       |         |      |      |                | Date                                                                                      |       | Time  |                | Received by: (Signature)       |                                                                                                                                                |     |       |             | Date        |              | Time       |                   |              |             |                  |      |         |                                                                                |
|                                                                    |         |      |      |                | 7/17/25                                                                                   |       | 1440  |                |                                |                                                                                                                                                |     |       |             | 7/17/25     |              | 1440       |                   |              |             |                  |      |         |                                                                                |
| Relinquished by: (Signature)                                       |         |      |      |                | Date                                                                                      |       | Time  |                | Received by Lab: (Signature)   |                                                                                                                                                |     |       |             | Date        |              | Time       |                   |              |             |                  |      |         |                                                                                |
|                                                                    |         |      |      |                |                                                                                           |       |       |                |                                |                                                                                                                                                |     |       |             |             |              |            |                   |              |             |                  |      |         |                                                                                |
| Sent to Laboratory (Name):                                         |         |      |      |                | Method of Shipment                                                                        |       |       |                |                                | <input checked="" type="checkbox"/> Lab courier <input type="checkbox"/> Fed Ex <input type="checkbox"/> Airborne <input type="checkbox"/> UPS |     |       |             |             |              |            |                   |              |             |                  |      |         |                                                                                |
| Laboratory Comments/Notes:                                         |         |      |      |                | <input type="checkbox"/> Hand Carried <input type="checkbox"/> Private Courier (Co. Name) |       |       |                |                                |                                                                                                                                                |     |       |             |             |              |            |                   |              |             |                  |      |         |                                                                                |
| email report to <a href="mailto:npi@lancan.com">npi@lancan.com</a> |         |      |      |                |                                                                                           |       |       |                |                                |                                                                                                                                                |     |       |             |             |              |            |                   |              |             |                  |      |         |                                                                                |

White Copy - Original

Yellow Copy - Laboratory

Pink Copy - Field

COC Number:

0.4% wet  
1/24

## **APPENDIX G**

### **JOHNSON AND ETTINGER MODEL – MERCURY IN GROUNDWATER**

**Model Input**      **Site Name/Run Number:** DTSC J&E Case

Note:  
 -Yellow highlighted cells indicate parameters that typically are changed or must be inputted by the user.  
 -Dotted outline cells indicate default values that may be changed with justification.  
 -Toxicity values are taken from Regional Screening Level (RSL) tables and/or California Toxicity Criteria Rule (see DTSC Human Health Risk Assessment Note 10). The RSL tables are updated semi-annually and may not reflect the most current toxicity information.

1

☐ Toxicity/Building Parameter Source

☐ USEPA

☒ CA-DTSC

☐ Capillary Fringe Model

☒ USEPA Default Capillary Fringe

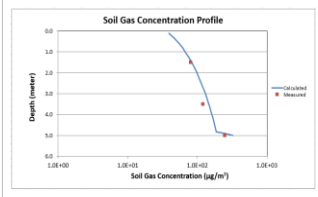
☐ van Genuchten Moisture Retention Profile

Toggle for different capillary model will be effective only when source medium = "Groundwater"

[Use English / Metric Converter](#)

| Source Characteristics:                                                                                                                                                                                                                                                                                    | Units           | Symbol       | Value               | Default       | Potential Span | CV   | Flag | Comment                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------|---------------------|---------------|----------------|------|------|-------------------------------------|
| Source medium                                                                                                                                                                                                                                                                                              |                 | Source       | Groundwater         |               |                |      |      |                                     |
| Groundwater concentration                                                                                                                                                                                                                                                                                  | (ug/L)          | Cmedium      | 2.7                 |               | NA             |      |      |                                     |
| Depth below grade to water table                                                                                                                                                                                                                                                                           | (m)             | Ls           | 3.00                |               | Vary - 50      | NA   |      |                                     |
| Average groundwater temperature                                                                                                                                                                                                                                                                            | (°C)            | Ts           | 24                  | 24            | 3 - 25         |      |      |                                     |
| Calc: Source vapor concentration                                                                                                                                                                                                                                                                           | (ug/m3)         | Cs           | 881                 |               |                |      |      |                                     |
| Calc: % of pure component saturated vapor concentration                                                                                                                                                                                                                                                    | (%)             | %Sat         | 4.168%              |               |                |      |      |                                     |
| Chemical:                                                                                                                                                                                                                                                                                                  | Units           | Symbol       | Value               | Default       | Potential Span | CV   | Flag | Comment                             |
| Chemical Name                                                                                                                                                                                                                                                                                              |                 | Chem         | Mercury (elemental) |               |                |      |      |                                     |
| CAS No.                                                                                                                                                                                                                                                                                                    |                 | CAS          | 7439-97-6           |               |                |      |      |                                     |
| Toxicity Factors                                                                                                                                                                                                                                                                                           |                 | CA-DTSC      |                     |               |                |      |      |                                     |
| Unit risk factor                                                                                                                                                                                                                                                                                           | (ug/m³)⁻¹       | IUR          | Not Available       | Not Available | NA             | NA   |      | No IUR available for this compound. |
| Mutagenic compound                                                                                                                                                                                                                                                                                         |                 | Mut          | No                  | NA            | NA             | NA   |      |                                     |
| Reference concentration                                                                                                                                                                                                                                                                                    | (mg/m³)         | RfC          | 3.00E-05            | 3.00E-05      | NA             | NA   |      |                                     |
| Chemical Properties:                                                                                                                                                                                                                                                                                       | Units           | Symbol       | Value               | Default       | Potential Span | CV   | Flag | Comment                             |
| Pure component water solubility                                                                                                                                                                                                                                                                            | (mg/L)          | S            | 6.00E-02            | 6.00E-02      | NA             | NA   |      |                                     |
| Henry's Law Constant @ 25°C                                                                                                                                                                                                                                                                                | (atm-m³/mol)    | Hc           | 8.62E-03            | 8.62E-03      | NA             | NA   |      |                                     |
| Calc: Henry's Law Constant @ 25°C                                                                                                                                                                                                                                                                          | (dimensionless) | Hr           | 3.53E-01            | 3.53E-01      |                |      |      |                                     |
| Calc: Henry's Law Constant @ system temperature                                                                                                                                                                                                                                                            | (dimensionless) | Hs           | 3.26E-01            | 3.26E-01      |                |      |      |                                     |
| Diffusivity in air                                                                                                                                                                                                                                                                                         | (cm²/s)         | Dair         | 3.07E-02            | 3.07E-02      | NA             | NA   |      |                                     |
| Diffusivity in water                                                                                                                                                                                                                                                                                       | (cm²/s)         | Dwater       | 6.30E-06            | 6.30E-06      | NA             | NA   |      |                                     |
| Building Characteristics:                                                                                                                                                                                                                                                                                  |                 |              |                     |               |                |      |      |                                     |
| <div style="border: 1px solid black; padding: 5px;"> <p>Select Building Assumptions</p> <p><input checked="" type="radio"/> Use ratio for Qsoil/Qbuilding (recommended if no site specific data available)</p> <p><input type="radio"/> Specify Qsoil and Qbuilding separately; calculate ratio</p> </div> |                 |              | 0.9144              |               |                |      |      |                                     |
|                                                                                                                                                                                                                                                                                                            | Units           | Symbol       | Value               | Default       | Potential Span | CV   | Flag | Comment                             |
| Building setting                                                                                                                                                                                                                                                                                           |                 | Bldg_Setting | Commercial          | Commercial    |                |      |      |                                     |
| Foundation type                                                                                                                                                                                                                                                                                            |                 | Found_Type   | Slab-on-grade       | Slab-on-grade |                |      |      |                                     |
| Depth below grade to base of foundation                                                                                                                                                                                                                                                                    | (m)             | Lb           | 0.20                | 0.20          | 0.1 - 2.44     | NA   |      |                                     |
| Foundation thickness                                                                                                                                                                                                                                                                                       | (m)             | Lf           | 0.20                | 0.20          | 0.1 - 0.25     | NA   |      |                                     |
| Fraction of foundation area with cracks                                                                                                                                                                                                                                                                    | (-)             | eta          | 0.005               | 0.005         | 0.00019-0.005  | 1.00 |      |                                     |
| Enclosed space floor area                                                                                                                                                                                                                                                                                  | (m²)            | Abf          | 1500.00             | 1500.00       | 80-1500        | NA   |      |                                     |
| Enclosed space mixing height                                                                                                                                                                                                                                                                               | (m)             | Hb           | 3.00                | 3.00          | 2.13 - 3.05    | NA   |      |                                     |
| Indoor air exchange rate                                                                                                                                                                                                                                                                                   | (1 / hr)        | ach          | 1.00                | 1.00          | 0.3-4.1        | NA   |      |                                     |
| Qsoil/Qbuilding                                                                                                                                                                                                                                                                                            | (-)             | Qsoil_Qb     | 0.0300              | 0.0300        | 0.0001 - 0.05  | 1.24 |      |                                     |
| Calc: Building ventilation rate                                                                                                                                                                                                                                                                            | (m³/hr)         | Qb           | 4500.00             | 4500.00       | NA             | 0.30 |      |                                     |
| Calc: Average vapor flow rate into building                                                                                                                                                                                                                                                                | (m³/hr)         | Qsoil        | 135.00              | 135.00        | NA             | NA   |      |                                     |

|                                                |  |                       |               |               |                |                       |           |             |                                                |  |  |
|------------------------------------------------|--|-----------------------|---------------|---------------|----------------|-----------------------|-----------|-------------|------------------------------------------------|--|--|
| Model Input                                    |  | Site Name/Run Number: |               | DTSC J&E Case |                |                       |           |             |                                                |  |  |
| Chemical Name: Mercury (elemental)             |  | CAS No. 7439-97-6     |               |               |                |                       |           |             |                                                |  |  |
| Depth below grade to water table: 3.00 meters  |  |                       |               |               |                |                       |           |             |                                                |  |  |
| <b>Vadose zone characteristics:</b>            |  | <b>Units</b>          | <b>Symbol</b> | <b>Value</b>  | <b>Default</b> | <b>Potential Span</b> | <b>CV</b> | <b>Flag</b> | <b>Comment</b>                                 |  |  |
| <b>Stratum A (Top of soil profile):</b>        |  |                       |               |               |                |                       |           |             |                                                |  |  |
| Stratum A SCS soil type                        |  |                       | SCS_A         | Sand          |                |                       |           |             |                                                |  |  |
| Stratum A thickness (from surface)             |  | (m)                   | hSA           | 3.00          |                |                       |           |             |                                                |  |  |
| Stratum A total porosity                       |  | (-)                   | nSA           | 0.375         | 0.375          | NA                    | 0.20      |             |                                                |  |  |
| Stratum A water-filled porosity                |  | (-)                   | nwSA          | 0.054         | 0.054          | 0.053 - 0.055         | 0.25      |             |                                                |  |  |
| Stratum A bulk density                         |  | (g/cm³)               | rhoSA         | 1.660         | 1.660          | NA                    | 0.05      |             |                                                |  |  |
| <b>Stratum B (Soil layer below Stratum A):</b> |  |                       |               |               |                |                       |           |             |                                                |  |  |
| Stratum B SCS soil type                        |  |                       | SCS_B         | Not Present   |                |                       |           |             |                                                |  |  |
| Stratum B thickness                            |  | (m)                   | hSB           | 0.00          |                |                       |           |             |                                                |  |  |
| Stratum B total porosity                       |  | (-)                   | nSB           |               |                | NA                    | NA        |             |                                                |  |  |
| Stratum B water-filled porosity                |  | (-)                   | nwSB          |               |                | NA                    | NA        |             |                                                |  |  |
| Stratum B bulk density                         |  | (g/cm³)               | rhoSB         |               |                | NA                    | NA        |             |                                                |  |  |
| <b>Stratum C (Soil layer below Stratum B):</b> |  |                       |               |               |                |                       |           |             |                                                |  |  |
| Stratum C SCS soil type                        |  |                       | SCS_C         | Not Present   |                |                       |           |             |                                                |  |  |
| Stratum C thickness                            |  | (m)                   | hSC           | 0.00          |                |                       |           |             |                                                |  |  |
| Stratum C total porosity                       |  | (-)                   | nSC           |               |                | NA                    | NA        |             |                                                |  |  |
| Stratum C water-filled porosity                |  | (-)                   | nwSC          |               |                | NA                    | NA        |             |                                                |  |  |
| Stratum C bulk density                         |  | (g/cm³)               | rhoSC         |               |                | NA                    | NA        |             |                                                |  |  |
| <b>Stratum directly above the water table</b>  |  |                       |               |               |                |                       |           |             |                                                |  |  |
| Stratum A, B, or C                             |  |                       | src_soil      | Stratum A     |                |                       |           |             |                                                |  |  |
| Height of capillary fringe                     |  | (m)                   | hcz           | 0.170         | 0.170          | NA                    | NA        |             |                                                |  |  |
| Capillary zone total porosity                  |  | (-)                   | ncz           | 0.375         | 0.375          | NA                    | 0.20      |             |                                                |  |  |
| Capillary zone water filled porosity           |  | (-)                   | nwcz          | 0.253         | 0.253          | NA                    | 0.14      |             |                                                |  |  |
| <b>Exposure Parameters:</b>                    |  | <b>Units</b>          | <b>Symbol</b> | <b>Value</b>  | <b>Default</b> | <b>Potential Span</b> | <b>CV</b> | <b>Flag</b> | <b>Comment</b>                                 |  |  |
| Target risk for carcinogens                    |  | (-)                   | Target_CR     | 1.00E-06      | 1.00E-06       | NA                    | NA        |             |                                                |  |  |
| Target hazard quotient for non-carcinogens     |  | (-)                   | Target_HQ     | 1             | 1              | NA                    | NA        |             |                                                |  |  |
| Exposure Scenario                              |  |                       | Scenario      | Commercial    | Commercial     |                       |           |             |                                                |  |  |
| Averaging time for carcinogens                 |  | (yrs)                 | ATc           | 70            | 70             | NA                    | NA        |             |                                                |  |  |
| Averaging time for non-carcinogens             |  | (yrs)                 | ATnc          | 25            | 25             | NA                    | NA        |             |                                                |  |  |
| Exposure duration                              |  | (yrs)                 | ED            | 25            | 25             | NA                    | NA        |             |                                                |  |  |
| Exposure frequency                             |  | (days/yr)             | EF            | 250           | 250            | NA                    | NA        |             |                                                |  |  |
| Exposure time                                  |  | (hrs/24 hrs)          | ET            | 8             | 8              | NA                    | NA        |             |                                                |  |  |
| Mutagenic mode-of-action factor                |  | (yrs)                 | MMOAF         | 72            | 72             | NA                    | NA        | NOTE        | MMOAF not relevant for non-mutagenic compounds |  |  |

|                                                                                                                         |  |                              |               |                                                                                                                                                                                                   |                                        |                                                                                                         |                                                |             |                |
|-------------------------------------------------------------------------------------------------------------------------|--|------------------------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|---------------------------------------------------------------------------------------------------------|------------------------------------------------|-------------|----------------|
| <b>Model Output</b>                                                                                                     |  | <b>Site Name/Run Number:</b> |               | DTSC J&E Case                                                                                                                                                                                     |                                        | <b>Range</b> is based on the reasonable range of Qsoil/Qbuilding values, as reported in the literature. |                                                |             |                |
| <b>Chemical Name:</b> Mercury (elemental)                                                                               |  | <b>CAS No.</b> 7439-97-6     |               |                                                                                                                                                                                                   |                                        |                                                                                                         |                                                |             |                |
| <b>Source to Indoor Air Attenuation Factor</b>                                                                          |  | <b>Units</b>                 | <b>Symbol</b> | <b>Value</b>                                                                                                                                                                                      | <b>Range</b>                           | <b>Default</b>                                                                                          | <b>Default Range</b>                           | <b>Flag</b> | <b>Comment</b> |
| Groundwater to indoor air attenuation coefficient                                                                       |  | (-)                          | alpha         | 8.8E-05                                                                                                                                                                                           | 4.7E-05 - 8.8E-05                      | 8.8E-05                                                                                                 | 4.7E-05 - 8.8E-05                              |             |                |
| <b>Predicted Indoor Air Concentration</b>                                                                               |  | <b>Units</b>                 | <b>Symbol</b> | <b>Value</b>                                                                                                                                                                                      | <b>Range</b>                           | <b>Default</b>                                                                                          | <b>Default Range</b>                           | <b>Flag</b> | <b>Comment</b> |
| Indoor air concentration due to vapor intrusion                                                                         |  | (ug/m3)<br>(ppbv)            | Cia           | 7.7E-02<br>9.4E-03                                                                                                                                                                                | 4.1E-02 - 7.7E-02<br>5.0E-03 - 9.4E-03 | 7.7E-02<br>9.4E-03                                                                                      | 4.1E-02 - 7.7E-02<br>5.0E-03 - 9.4E-03         |             |                |
| <b>Predicted Vapor Conc. Beneath Foundation</b>                                                                         |  | <b>Units</b>                 | <b>Symbol</b> | <b>Value</b>                                                                                                                                                                                      | <b>Range</b>                           | <b>Default</b>                                                                                          | <b>Default Range</b>                           | <b>Flag</b> | <b>Comment</b> |
| Subslab vapor concentration                                                                                             |  | (ug/m3)<br>(ppbv)            | Css           | 2.6E+00<br>3.1E-01                                                                                                                                                                                | 1.5E+00 - 4.1E+02<br>1.9E-01 - 5.0E+01 | 2.6E+00<br>3.1E-01                                                                                      | 4.1E+02 - 7.7E+02<br>5.0E+01 - 9.4E+01         |             |                |
| <b>Diffusive Transport Upward Through Vadose Zone</b>                                                                   |  | <b>Units</b>                 | <b>Symbol</b> | <b>Value</b>                                                                                                                                                                                      | <b>Range</b>                           | <b>Default</b>                                                                                          | <b>Default Range</b>                           | <b>Flag</b> | <b>Comment</b> |
| Effective diffusion coefficient through Stratum A                                                                       |  | (cm2/sec)                    | DeffA         | 5.0E-03                                                                                                                                                                                           | -                                      | 5.0E-03                                                                                                 | -                                              |             |                |
| Effective diffusion coefficient through Stratum B                                                                       |  | (cm2/sec)                    | DeffB         | -                                                                                                                                                                                                 | -                                      | -                                                                                                       | -                                              |             |                |
| Effective diffusion coefficient through Stratum C                                                                       |  | (cm2/sec)                    | DeffC         | -                                                                                                                                                                                                 | -                                      | -                                                                                                       | -                                              |             |                |
| Effective diffusion coefficient through capillary zone                                                                  |  | (cm2/sec)                    | DeffCZ        | 2.0E-04                                                                                                                                                                                           | -                                      | 2.0E-04                                                                                                 | -                                              |             |                |
| Effective diffusion coefficient through unsaturated zone                                                                |  | (cm2/sec)                    | DeffT         | 2.0E-03                                                                                                                                                                                           | -                                      | 2.0E-03                                                                                                 | -                                              |             |                |
| <b>Critical Parameters</b>                                                                                              |  |                              | <b>Symbol</b> | <b>Value</b>                                                                                                                                                                                      | <b>Range</b>                           | <b>Default</b>                                                                                          | <b>Default Range</b>                           | <b>Flag</b> |                |
| α for diffusive transport from source to building with dirt floor foundation                                            |  | (-)                          | A_Param       | 8.8E-05                                                                                                                                                                                           | -                                      | 8.8E-05                                                                                                 |                                                |             |                |
| Pe (Peclet Number) for transport through the foundation (advection / diffusion)                                         |  | (-)                          | B_Param       | 2.0E+03                                                                                                                                                                                           | 6.6E+00 - 3.3E+03                      | 2.0E+03                                                                                                 | 6.6E+00 - 3.3E+03                              |             |                |
| α for convective transport from subslab to building                                                                     |  | (-)                          | C_Param       | 3.0E-02                                                                                                                                                                                           | 1.0E-04 - 5.0E-02                      | 3.0E-02                                                                                                 | 1.0E-04 - 5.0E-02                              |             |                |
| <b>Interpretation</b>                                                                                                   |  |                              |               |                                                                                                                                                                                                   |                                        |                                                                                                         |                                                |             |                |
| Advection is the dominant mechanism across the foundation. Diffusion through soil is the overall rate limiting process. |  |                              |               |  <p>The Soil Gas Profile Plot has been moved to "MEASURED_SOIL_GAS_CONC." tab for side-by-side comparison.</p> |                                        |                                                                                                         | Maximum measured soil gas below modeled depth. |             |                |
|                                                                                                                         |  |                              |               |                                                                                                                                                                                                   |                                        |                                                                                                         |                                                |             |                |
| <b>Critical Parameters</b>                                                                                              |  |                              |               |                                                                                                                                                                                                   |                                        |                                                                                                         |                                                |             |                |
| Hb, Ls, DeffT, ach                                                                                                      |  |                              |               |                                                                                                                                                                                                   |                                        |                                                                                                         |                                                |             |                |
| <b>Non-Critical Parameters</b>                                                                                          |  |                              |               |                                                                                                                                                                                                   |                                        |                                                                                                         |                                                |             |                |
| Qsoil_Qb, Lf, DeffA, eta                                                                                                |  |                              |               |                                                                                                                                                                                                   |                                        |                                                                                                         |                                                |             |                |

|                                              |  |                       |             |               |                   |          |                   |      |                                                                                               |  |
|----------------------------------------------|--|-----------------------|-------------|---------------|-------------------|----------|-------------------|------|-----------------------------------------------------------------------------------------------|--|
| Model Output                                 |  | Site Name/Run Number: |             | DTSC J&E Case |                   |          |                   |      |                                                                                               |  |
| Chemical Name: Mercury (elemental)           |  | CAS No. 7439-97-6     |             |               |                   |          |                   |      |                                                                                               |  |
| Risk Calculations                            |  | Units                 | Symbol      | Value         | Range             | Default  | Range             | Flag | Comment                                                                                       |  |
| Risk-Based Target Screening Levels           |  |                       |             |               |                   |          |                   |      |                                                                                               |  |
| Scenario: Commercial                         |  |                       |             |               |                   |          |                   |      |                                                                                               |  |
| Target risk for carcinogens                  |  | (-)                   | Target_CR   | 1E-06         | -                 | 1E-06    | -                 |      |                                                                                               |  |
| Target hazard quotient for noncarcinogens    |  | (-)                   | Target_HQ   | 1             | -                 | 1        | -                 |      |                                                                                               |  |
| Target indoor air concentration              |  | (ug/m3)               | Target_IA   | 1.31E-01      | -                 | 1.31E-01 | -                 |      | Target indoor air concentration based on non-cancer toxicity (reference concentration)        |  |
|                                              |  | (ppbv)                |             | 1.60E-02      | -                 | 1.60E-02 | -                 |      |                                                                                               |  |
| Target groundwater concentration             |  | (ug/L)                | Target_GW   | 4.59E+00      | 4.6E+00 - 8.6E+00 | 4.59E+00 | 4.6E+00 - 8.6E+00 |      |                                                                                               |  |
| Incremental Risk Estimates                   |  |                       |             |               |                   |          |                   |      |                                                                                               |  |
| Incremental cancer risk from vapor intrusion |  | (-)                   | Cancer_Risk | No IUR        | -                 | No IUR   | No IUR - No IUR   |      | Note: biodegradation not included in this model, may over estimate indoor air concentrations. |  |
| Hazard quotient from vapor intrusion         |  | (-)                   | HQ          | 5.89E-01      | 3.1E-01 - 5.9E-01 | 5.89E-01 | 3.1E-01 - 5.9E-01 |      | Note: biodegradation not included in this model, may over estimate indoor air concentrations. |  |
| End of Worksheet                             |  |                       |             |               |                   |          |                   |      |                                                                                               |  |

**Model Input**      **Site Name/Run Number:** DTSC J&E Case

Note:  
 -Yellow highlighted cells indicate parameters that typically are changed or must be inputted by the user.  
 -Dotted outline cells indicate default values that may be changed with justification.  
 -Toxicity values are taken from Regional Screening Level (RSL) tables and/or California Toxicity Criteria Rule (see DTSC Human Health Risk Assessment Note 10). The RSL tables are updated semi-annually and may not reflect the most current toxicity information.

1

☐ Toxicity/Building Parameter Source

☐ USEPA

☒ CA-DTSC

☐ Capillary Fringe Model

☒ USEPA Default Capillary Fringe

☐ van Genuchten Moisture Retention Profile

Toggle for different capillary model will be effective only when source medium = "Groundwater"

[Use English / Metric Converter](#)

| Source Characteristics:                                                                                                                                                                                                                                                                                    | Units                              | Symbol       | Value               | Default       | Potential Span | CV   | Flag | Comment                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|--------------|---------------------|---------------|----------------|------|------|-------------------------------------|
| <b>Source medium</b>                                                                                                                                                                                                                                                                                       |                                    | Source       | Groundwater         |               |                |      |      |                                     |
| <b>Groundwater concentration</b>                                                                                                                                                                                                                                                                           | (ug/L)                             | Cmedium      | 2.7                 |               | NA             |      |      |                                     |
| <b>Depth below grade to water table</b>                                                                                                                                                                                                                                                                    | (m)                                | Ls           | 3.00                |               | Vary - 50      | NA   |      |                                     |
| <b>Average groundwater temperature</b>                                                                                                                                                                                                                                                                     | (°C)                               | Ts           | 24                  | 24            | 3 - 25         |      |      |                                     |
| Calc: Source vapor concentration                                                                                                                                                                                                                                                                           | (ug/m3)                            | Cs           | 881                 |               |                |      |      |                                     |
| Calc: % of pure component saturated vapor concentration                                                                                                                                                                                                                                                    | (%)                                | %Sat         | 4.168%              |               |                |      |      |                                     |
| Chemical:                                                                                                                                                                                                                                                                                                  | Units                              | Symbol       | Value               | Default       | Potential Span | CV   | Flag | Comment                             |
| <b>Chemical Name</b>                                                                                                                                                                                                                                                                                       |                                    | Chem         | Mercury (elemental) |               |                |      |      |                                     |
| CAS No.                                                                                                                                                                                                                                                                                                    |                                    | CAS          | 7439-97-6           |               |                |      |      |                                     |
| <b>Toxicity Factors</b>                                                                                                                                                                                                                                                                                    |                                    | CA-DTSC      |                     |               |                |      |      |                                     |
| Unit risk factor                                                                                                                                                                                                                                                                                           | (ug/m <sup>3</sup> ) <sup>-1</sup> | IUR          | Not Available       | Not Available | NA             | NA   |      | No IUR available for this compound. |
| Mutagenic compound                                                                                                                                                                                                                                                                                         |                                    | Mut          | No                  | NA            | NA             | NA   |      |                                     |
| Reference concentration                                                                                                                                                                                                                                                                                    | (mg/m <sup>3</sup> )               | RfC          | 3.00E-05            | 3.00E-05      | NA             | NA   |      |                                     |
| Chemical Properties:                                                                                                                                                                                                                                                                                       | Units                              | Symbol       | Value               | Default       | Potential Span | CV   | Flag | Comment                             |
| Pure component water solubility                                                                                                                                                                                                                                                                            | (mg/L)                             | S            | 6.00E-02            | 6.00E-02      | NA             | NA   |      |                                     |
| Henry's Law Constant @ 25°C                                                                                                                                                                                                                                                                                | (atm-m <sup>3</sup> /mol)          | Hc           | 8.62E-03            | 8.62E-03      | NA             | NA   |      |                                     |
| Calc: Henry's Law Constant @ 25°C                                                                                                                                                                                                                                                                          | (dimensionless)                    | Hr           | 3.53E-01            | 3.53E-01      |                |      |      |                                     |
| Calc: Henry's Law Constant @ system temperature                                                                                                                                                                                                                                                            | (dimensionless)                    | Hs           | 3.26E-01            | 3.26E-01      |                |      |      |                                     |
| Diffusivity in air                                                                                                                                                                                                                                                                                         | (cm2/s)                            | Dair         | 3.07E-02            | 3.07E-02      | NA             | NA   |      |                                     |
| Diffusivity in water                                                                                                                                                                                                                                                                                       | (cm2/s)                            | Dwater       | 6.30E-06            | 6.30E-06      | NA             | NA   |      |                                     |
| Building Characteristics:                                                                                                                                                                                                                                                                                  |                                    |              |                     |               |                |      |      |                                     |
| <div style="border: 1px solid black; padding: 5px;"> <p>Select Building Assumptions</p> <p><input checked="" type="radio"/> Use ratio for Qsoil/Qbuilding (recommended if no site specific data available)</p> <p><input type="radio"/> Specify Qsoil and Qbuilding separately; calculate ratio</p> </div> |                                    |              | 0.9144              |               |                |      |      |                                     |
|                                                                                                                                                                                                                                                                                                            | Units                              | Symbol       | Value               | Default       | Potential Span | CV   | Flag | Comment                             |
| <b>Building setting</b>                                                                                                                                                                                                                                                                                    |                                    | Bldg_Setting | Commercial          | Commercial    |                |      |      |                                     |
| <b>Foundation type</b>                                                                                                                                                                                                                                                                                     |                                    | Found_Type   | Slab-on-grade       | Slab-on-grade |                |      |      |                                     |
| Depth below grade to base of foundation                                                                                                                                                                                                                                                                    | (m)                                | Lb           | 0.20                | 0.20          | 0.1 - 2.44     | NA   |      |                                     |
| Foundation thickness                                                                                                                                                                                                                                                                                       | (m)                                | Lf           | 0.20                | 0.20          | 0.1 - 0.25     | NA   |      |                                     |
| Fraction of foundation area with cracks                                                                                                                                                                                                                                                                    | (-)                                | eta          | 0.005               | 0.005         | 0.00019-0.005  | 1.00 |      |                                     |
| Enclosed space floor area                                                                                                                                                                                                                                                                                  | (m2)                               | Abf          | 1500.00             | 1500.00       | 80-1500        | NA   |      |                                     |
| Enclosed space mixing height                                                                                                                                                                                                                                                                               | (m)                                | Hb           | 3.00                | 3.00          | 2.13 - 3.05    | NA   |      |                                     |
| Indoor air exchange rate                                                                                                                                                                                                                                                                                   | (1 / hr)                           | ach          | 1.00                | 1.00          | 0.3-4.1        | NA   |      |                                     |
| Qsoil/Qbuilding                                                                                                                                                                                                                                                                                            | (-)                                | Qsoil_Qb     | 0.0300              | 0.0300        | 0.0001 - 0.05  | 1.24 |      |                                     |
| Calc: Building ventilation rate                                                                                                                                                                                                                                                                            | (m3/hr)                            | Qb           | 4500.00             | 4500.00       | NA             | 0.30 |      |                                     |
| Calc: Average vapor flow rate into building                                                                                                                                                                                                                                                                | (m3/hr)                            | Qsoil        | 135.00              | 135.00        | NA             | NA   |      |                                     |



|                                                |  |                              |               |               |                |                       |           |             |                                                |  |
|------------------------------------------------|--|------------------------------|---------------|---------------|----------------|-----------------------|-----------|-------------|------------------------------------------------|--|
|                                                |  |                              |               |               |                |                       |           |             |                                                |  |
| <b>Model Input</b>                             |  | <b>Site Name/Run Number:</b> |               | DTSC J&E Case |                |                       |           |             |                                                |  |
| Chemical Name: Mercury (elemental)             |  | CAS No. 7439-97-6            |               |               |                |                       |           |             |                                                |  |
| Depth below grade to water table: 3.00 meters  |  |                              |               |               |                |                       |           |             |                                                |  |
|                                                |  |                              |               |               |                |                       |           |             |                                                |  |
| <b>Vadose zone characteristics:</b>            |  | <b>Units</b>                 | <b>Symbol</b> | <b>Value</b>  | <b>Default</b> | <b>Potential Span</b> | <b>CV</b> | <b>Flag</b> | <b>Comment</b>                                 |  |
| <b>Stratum A (Top of soil profile):</b>        |  |                              |               |               |                |                       |           |             |                                                |  |
| Stratum A SCS soil type                        |  |                              | SCS_A         | Sandy Clay    |                |                       |           |             |                                                |  |
| Stratum A thickness (from surface)             |  | (m)                          | hSA           | 3.00          |                |                       |           |             |                                                |  |
| Stratum A total porosity                       |  | (-)                          | nSA           | 0.385         | 0.385          | NA                    | 0.20      |             |                                                |  |
| Stratum A water-filled porosity                |  | (-)                          | nwSA          | 0.197         | 0.197          | 0.117 - 0.28          | 0.25      |             |                                                |  |
| Stratum A bulk density                         |  | (g/cm³)                      | rhoSA         | 1.630         | 1.630          | NA                    | 0.05      |             |                                                |  |
| <b>Stratum B (Soil layer below Stratum A):</b> |  |                              |               |               |                |                       |           |             |                                                |  |
| Stratum B SCS soil type                        |  |                              | SCS_B         | Not Present   |                |                       |           |             |                                                |  |
| Stratum B thickness                            |  | (m)                          | hSB           | 0.00          |                |                       |           |             |                                                |  |
| Stratum B total porosity                       |  | (-)                          | nSB           |               |                | NA                    | NA        |             |                                                |  |
| Stratum B water-filled porosity                |  | (-)                          | nwSB          |               |                | NA                    | NA        |             |                                                |  |
| Stratum B bulk density                         |  | (g/cm³)                      | rhoSB         |               |                | NA                    | NA        |             |                                                |  |
| <b>Stratum C (Soil layer below Stratum B):</b> |  |                              |               |               |                |                       |           |             |                                                |  |
| Stratum C SCS soil type                        |  |                              | SCS_C         | Not Present   |                |                       |           |             |                                                |  |
| Stratum C thickness                            |  | (m)                          | hSC           | 0.00          |                |                       |           |             |                                                |  |
| Stratum C total porosity                       |  | (-)                          | nSC           |               |                | NA                    | NA        |             |                                                |  |
| Stratum C water-filled porosity                |  | (-)                          | nwSC          |               |                | NA                    | NA        |             |                                                |  |
| Stratum C bulk density                         |  | (g/cm³)                      | rhoSC         |               |                | NA                    | NA        |             |                                                |  |
| <b>Stratum directly above the water table</b>  |  |                              |               |               |                |                       |           |             |                                                |  |
| Stratum A, B, or C                             |  |                              | src_soil      | Stratum A     |                |                       |           |             |                                                |  |
| Height of capillary fringe                     |  | (m)                          | hcz           | 0.300         | 0.300          | NA                    | NA        |             |                                                |  |
| Capillary zone total porosity                  |  | (-)                          | ncz           | 0.385         | 0.385          | NA                    | 0.20      |             |                                                |  |
| Capillary zone water filled porosity           |  | (-)                          | nwcz          | 0.355         | 0.355          | NA                    | 0.13      |             |                                                |  |
|                                                |  |                              |               |               |                |                       |           |             |                                                |  |
| <b>Exposure Parameters:</b>                    |  | <b>Units</b>                 | <b>Symbol</b> | <b>Value</b>  | <b>Default</b> | <b>Potential Span</b> | <b>CV</b> | <b>Flag</b> | <b>Comment</b>                                 |  |
| Target risk for carcinogens                    |  | (-)                          | Target_CR     | 1.00E-06      | 1.00E-06       | NA                    | NA        |             |                                                |  |
| Target hazard quotient for non-carcinogens     |  | (-)                          | Target_HQ     | 1             | 1              | NA                    | NA        |             |                                                |  |
| Exposure Scenario                              |  |                              | Scenario      | Commercial    | Commercial     |                       |           |             |                                                |  |
| Averaging time for carcinogens                 |  | (yrs)                        | ATc           | 70            | 70             | NA                    | NA        |             |                                                |  |
| Averaging time for non-carcinogens             |  | (yrs)                        | ATnc          | 25            | 25             | NA                    | NA        |             |                                                |  |
| Exposure duration                              |  | (yrs)                        | ED            | 25            | 25             | NA                    | NA        |             |                                                |  |
| Exposure frequency                             |  | (days/yr)                    | EF            | 250           | 250            | NA                    | NA        |             |                                                |  |
| Exposure time                                  |  | (hrs/24 hrs)                 | ET            | 8             | 8              | NA                    | NA        |             |                                                |  |
| Mutagenic mode-of-action factor                |  | (yrs)                        | MMOAF         | 72            | 72             | NA                    | NA        | NOTE        | MMOAF not relevant for non-mutagenic compounds |  |

|                                                                                                                         |  |                       |         |                                                                                                                            |                                        |                                                                                                  |                                        |      |
|-------------------------------------------------------------------------------------------------------------------------|--|-----------------------|---------|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------|----------------------------------------|------|
| Model Output                                                                                                            |  | Site Name/Run Number: |         | DTSC J&E Case                                                                                                              |                                        | Range is based on the reasonable range of Qsoil/Qbuilding values, as reported in the literature. |                                        |      |
| Chemical Name: Mercury (elemental)                                                                                      |  | CAS No. 7439-97-6     |         |                                                                                                                            |                                        |                                                                                                  |                                        |      |
| <b>Source to Indoor Air Attenuation Factor</b>                                                                          |  | Units                 | Symbol  | Value                                                                                                                      | Range                                  | Default                                                                                          | Default Range                          | Flag |
| Groundwater to indoor air attenuation coefficient                                                                       |  | (-)                   | alpha   | 2.3E-06                                                                                                                    | 2.2E-06 - 2.3E-06                      | 2.3E-06                                                                                          | 2.2E-06 - 2.3E-06                      |      |
| <b>Predicted Indoor Air Concentration</b>                                                                               |  | Units                 | Symbol  | Value                                                                                                                      | Range                                  | Default                                                                                          | Default Range                          | Flag |
| Indoor air concentration due to vapor intrusion                                                                         |  | (ug/m3)<br>(ppbv)     | Cia     | 2.0E-03<br>2.4E-04                                                                                                         | 2.0E-03 - 2.0E-03<br>2.4E-04 - 2.4E-04 | 2.0E-03<br>2.4E-04                                                                               | 2.0E-03 - 2.0E-03<br>2.4E-04 - 2.4E-04 |      |
| <b>Predicted Vapor Conc. Beneath Foundation</b>                                                                         |  | Units                 | Symbol  | Value                                                                                                                      | Range                                  | Default                                                                                          | Default Range                          | Flag |
| Subslab vapor concentration                                                                                             |  | (ug/m3)<br>(ppbv)     | Css     | 6.7E-02<br>8.1E-03                                                                                                         | 4.0E-02 - 2.0E+01<br>4.9E-03 - 2.4E+00 | 6.7E-02<br>8.1E-03                                                                               | 2.0E+01 - 2.0E+01<br>2.4E+00 - 2.4E+00 |      |
| <b>Diffusive Transport Upward Through Vadose Zone</b>                                                                   |  | Units                 | Symbol  | Value                                                                                                                      | Range                                  | Default                                                                                          | Default Range                          | Flag |
| Effective diffusion coefficient through Stratum A                                                                       |  | (cm2/sec)             | DeffA   | 7.9E-04                                                                                                                    | -                                      | 7.9E-04                                                                                          | -                                      |      |
| Effective diffusion coefficient through Stratum B                                                                       |  | (cm2/sec)             | DeffB   | -                                                                                                                          | -                                      | -                                                                                                | -                                      |      |
| Effective diffusion coefficient through Stratum C                                                                       |  | (cm2/sec)             | DeffC   | -                                                                                                                          | -                                      | -                                                                                                | -                                      |      |
| Effective diffusion coefficient through capillary zone                                                                  |  | (cm2/sec)             | DeffCZ  | 5.9E-06                                                                                                                    | -                                      | 5.9E-06                                                                                          | -                                      |      |
| Effective diffusion coefficient through unsaturated zone                                                                |  | (cm2/sec)             | DeffT   | 5.2E-05                                                                                                                    | -                                      | 5.2E-05                                                                                          | -                                      |      |
| <b>Critical Parameters</b>                                                                                              |  |                       | Symbol  | Value                                                                                                                      | Range                                  | Default                                                                                          | Default Range                          | Flag |
| α for diffusive transport from source to building with dirt floor foundation                                            |  | (-)                   | A_Param | 2.3E-06                                                                                                                    | -                                      | 2.3E-06                                                                                          |                                        |      |
| Pe (Peclet Number) for transport through the foundation (advection / diffusion)                                         |  | (-)                   | B_Param | 1.2E+04                                                                                                                    | 4.1E+01 - 2.1E+04                      | 1.2E+04                                                                                          | 4.1E+01 - 2.1E+04                      |      |
| α for convective transport from subslab to building                                                                     |  | (-)                   | C_Param | 3.0E-02                                                                                                                    | 1.0E-04 - 5.0E-02                      | 3.0E-02                                                                                          | 1.0E-04 - 5.0E-02                      |      |
| <b>Interpretation</b>                                                                                                   |  |                       |         |                                                                                                                            |                                        |                                                                                                  |                                        |      |
| Advection is the dominant mechanism across the foundation. Diffusion through soil is the overall rate limiting process. |  |                       |         | <div> <p>The Soil Gas Profile Plot has been moved to "MEASURED_SOIL_GAS_CONC." tab for side-by-side comparison.</p> </div> |                                        |                                                                                                  |                                        |      |
| <b>Critical Parameters</b>                                                                                              |  |                       |         |                                                                                                                            |                                        |                                                                                                  |                                        |      |
| Hb, Ls, DeffT, ach                                                                                                      |  |                       |         |                                                                                                                            |                                        |                                                                                                  |                                        |      |
| <b>Non-Critical Parameters</b>                                                                                          |  |                       |         |                                                                                                                            |                                        |                                                                                                  |                                        |      |
| Qsoil_Qb, Lf, DeffA, eta                                                                                                |  |                       |         | Maximum measured soil gas below modeled depth.                                                                             |                                        |                                                                                                  |                                        |      |

|                                              |  |                       |             |               |                   |          |                   |      |                                                                                               |  |
|----------------------------------------------|--|-----------------------|-------------|---------------|-------------------|----------|-------------------|------|-----------------------------------------------------------------------------------------------|--|
| Model Output                                 |  | Site Name/Run Number: |             | DTSC J&E Case |                   |          |                   |      |                                                                                               |  |
| Chemical Name: Mercury (elemental)           |  | CAS No. 7439-97-6     |             |               |                   |          |                   |      |                                                                                               |  |
| Risk Calculations                            |  | Units                 | Symbol      | Value         | Range             | Default  | Range             | Flag | Comment                                                                                       |  |
| Risk-Based Target Screening Levels           |  |                       |             |               |                   |          |                   |      |                                                                                               |  |
| Scenario: Commercial                         |  |                       |             |               |                   |          |                   |      |                                                                                               |  |
| Target risk for carcinogens                  |  | (-)                   | Target_CR   | 1E-06         | -                 | 1E-06    | -                 |      |                                                                                               |  |
| Target hazard quotient for noncarcinogens    |  | (-)                   | Target_HQ   | 1             | -                 | 1        | -                 |      |                                                                                               |  |
| Target indoor air concentration              |  | (ug/m3)               | Target_IA   | 1.31E-01      | -                 | 1.31E-01 | -                 |      | Target indoor air concentration based on non-cancer toxicity (reference concentration)        |  |
|                                              |  | (ppbv)                |             | 1.60E-02      | -                 | 1.60E-02 | -                 |      |                                                                                               |  |
| Target groundwater concentration             |  | (ug/L)                | Target_GW   | 1.77E+02      | 1.8E+02 - 1.8E+02 | 1.77E+02 | 1.8E+02 - 1.8E+02 |      |                                                                                               |  |
| Incremental Risk Estimates                   |  |                       |             |               |                   |          |                   |      |                                                                                               |  |
| Incremental cancer risk from vapor intrusion |  | (-)                   | Cancer_Risk | No IUR        | -                 | No IUR   | No IUR - No IUR   |      | Note: biodegradation not included in this model, may over estimate indoor air concentrations. |  |
| Hazard quotient from vapor intrusion         |  | (-)                   | HQ          | 1.53E-02      | 1.5E-02 - 1.5E-02 | 1.53E-02 | 1.5E-02 - 1.5E-02 |      | Note: biodegradation not included in this model, may over estimate indoor air concentrations. |  |
| End of Worksheet                             |  |                       |             |               |                   |          |                   |      |                                                                                               |  |

## **APPENDIX H**

### **HAYLEY & ALDRICH SOIL MANAGEMENT PLAN TABLE 1**

**TABLE I**  
**SUMMARY OF DETECTED ANALYTICAL RESULTS IN SOIL SAMPLES<sup>1,2</sup>**  
**TECH PLACE ON 101**  
**2509 ORCHARD PARKWAY**  
**SAN JOSE, CALIFORNIA**

[illegible]

| Location              | Date sampled                                                                                                                                 | Lab ID             | Sample Depth<br><i>feet bgs</i> | Dieldrin<br><i>mg/kg</i> | 4,4'-DDT<br><i>mg/kg</i> | 4,4'-DDE<br><i>mg/kg</i> | 4,4'-DDD<br><i>mg/kg</i> | Toxaphene<br><i>mg/kg</i> | alpha-<br>Chlordane<br><i>mg/kg</i> | Mercury<br><i>mg/kg</i> | Arsenic<br><i>mg/kg</i> | Lead<br><i>mg/kg</i> |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------|-------------------------------------|-------------------------|-------------------------|----------------------|
| B12                   | 8/11/2015                                                                                                                                    | 20150811-B12-0-0.5 | 0-0.5                           | --                       | --                       | --                       | --                       | --                        | --                                  | --                      | 6.4                     | --                   |
| B13                   | 8/11/2015                                                                                                                                    | 20150811-B13-0-0.5 | 0-0.5                           | --                       | --                       | --                       | --                       | --                        | --                                  | --                      | 44                      | --                   |
| B14                   | 8/11/2015                                                                                                                                    | 20150811-B14-0-0.5 | 0-0.5                           | --                       | --                       | --                       | --                       | --                        | --                                  | --                      | 13                      | --                   |
| B15                   | 8/11/2015                                                                                                                                    | 20150811-B15-0-0.5 | 0-0.5                           | --                       | --                       | --                       | --                       | --                        | --                                  | --                      | 16                      | --                   |
| B16                   | 8/11/2015                                                                                                                                    | 20150811-B16-0-0.5 | 0-0.5                           | --                       | --                       | --                       | --                       | --                        | --                                  | --                      | 49                      | --                   |
| B17                   | 8/11/2015                                                                                                                                    | 20150811-B17-0-0.5 | 0-0.5                           | --                       | --                       | --                       | --                       | --                        | --                                  | --                      | 5.2                     | --                   |
| B18                   | 8/11/2015                                                                                                                                    | 20150811-B18-0-0.5 | 0-0.5                           | --                       | --                       | --                       | --                       | --                        | --                                  | --                      | 29                      | --                   |
| B19                   | 8/11/2015                                                                                                                                    | 20150811-B19-0-0.5 | 0-0.5                           | --                       | --                       | --                       | --                       | --                        | --                                  | --                      | 12                      | --                   |
| B20                   | 8/11/2015                                                                                                                                    | 20150811-B20-0-0.5 | 0-0.5                           | --                       | --                       | --                       | --                       | --                        | --                                  | --                      | 16                      | --                   |
| B21                   | 8/11/2015                                                                                                                                    | 20150811-B21-0-0.5 | 0-0.5                           | --                       | --                       | --                       | --                       | --                        | --                                  | --                      | 17                      | --                   |
| B22                   | 8/11/2015                                                                                                                                    | 20150811-B22-0-0.5 | 0-0.5                           | --                       | --                       | --                       | --                       | --                        | --                                  | --                      | 24                      | --                   |
| B23                   | 8/11/2015                                                                                                                                    | 20150811-B23-0-0.5 | 0-0.5                           | --                       | --                       | --                       | --                       | --                        | --                                  | --                      | 18                      | --                   |
| Soil Screening Levels | Regional Screening Levels <sup>3</sup>                                                                                                       |                    |                                 | 0.14                     | 8.5                      | 9.3                      | 9.6                      | 2.1                       | 7.5                                 | 40                      | 3                       | 800                  |
|                       | DTSC-modified RSLs <sup>4</sup>                                                                                                              |                    |                                 | --                       | --                       | --                       | --                       | --                        | --                                  | 3.9                     | 0.42                    | 320                  |
|                       | Final Environmental Screening Levels <sup>5</sup> --accounts for toxicity to aquatic life via groundwater leaching as well as human toxicity |                    |                                 | 0.0023                   | 4                        | 4                        | 10                       | 0.00042                   | 1.7                                 | 10                      | 1.6                     | 320                  |
|                       | Environmental Screening Levels <sup>5</sup> --direct contact human toxicity only                                                             |                    |                                 | 0.13                     | --                       | --                       | --                       | 1.8                       | --                                  | --                      | --                      | --                   |
|                       | Regional Background Concentration <sup>6</sup>                                                                                               |                    |                                 | --                       | --                       | --                       | --                       | --                        | --                                  | --                      | 11                      | --                   |

**Notes**

<sup>1</sup> Samples collected by Haley & Aldrich, Inc. and analyzed by Test America of San Jose, California

<sup>2</sup> All samples are recorded in milligrams per kilogram (mg/kg), unless otherwise noted

<sup>3</sup> Laboratory analytical results are compared to the United States Environmental Protection Agency, Regional Screening Levels June 2015 for Industrial soil.

<sup>4</sup> Laboratory analytical results are compared to the Department of Toxic Substances Control-modified Regional Screening Levels May 2015 for Industrial soil. California Environmental Protection Agency, 2015, Department of Toxic Substances Control, Human Health Risk Assessment Note 3, DTSC-modified Screening Levels (DTSC-SLs), May.

<sup>5</sup> Laboratory analytical results are compared to the San Francisco Regional Water Quality Control Board, Environmental Screening Levels - Table A-2 - Shallow Soil Screening Levels, Commercial/Industrial Land Use (groundwater is current of potential drinking water source). Note that ESLs are considered to be very conservative and are currently undergoing revision to be more practically applicable. California Environmental Protection Agency, 2013, San Francisco Bay Regional Water Quality Control Board, Environmental Screening Levels, May.

<sup>6</sup> Regional Background Concentration based on the Masters' Thesis "Establishing Background Arsenic in Soil fo the Urbanized San Francisco Bay Region" by Dylan Jacques Duverge, December 2011, and accepted by the RWQCB.

**Abbreviations**

-- = sample not analyzed

< = analyte not detected at or above the indicated reporting limit

## **ATTACHMENT DR HAZ-8**

2003 Tank and Wells Closure Letter



# California Regional Water Quality Control Board

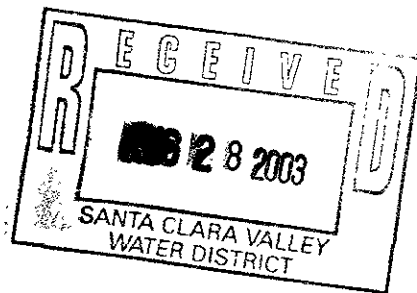
## San Francisco Bay Region



Winston H. Hickox  
Secretary for  
Environmental  
Protection

Internet Address: <http://www.swrcb.ca.gov/rwqcb2>  
1515 Clay Street, Suite 1400, Oakland, California 94612  
Phone (510) 622-2300 • FAX (510) 622-2460

Gray Davis  
Governor



Date: August 26, 2003  
File No. 43-3058 (BGS)

Ms. Julie Newman  
Agilent Technologies Inc.  
350 West Trimble  
San José, CA 95131

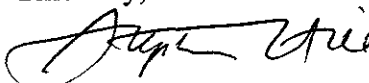
Subject: **Transmittal of the Closure Letter and Site Closure Summary – Agilent Technologies, Inc., 350 W. Trimble Road, San José, CA, SCVWD ID No. 06S1W26H01f, LOP No. 14-594, Santa Clara County**

Dear Ms. Newman:

Attached please find the uniform underground storage tank closure letter and the site closure summary for the subject site. Please contact Barbara Sieminski of my staff at (510) 622-2423 or e-mail [bgs@rb2.swrcb.ca.gov](mailto:bgs@rb2.swrcb.ca.gov) if you have any questions regarding this matter.

Residual diesel fuel contamination both in soil and groundwater may remain in the area of the former tank pit at the site that could pose an unacceptable risk under certain site development activities including site grading, excavation, or the installation of water wells. Therefore, the impact of the disturbance of any residual contamination or the installation of a water well in the vicinity of the residual contamination shall be assessed and appropriate action taken so that there is no significant impact to human health, safety, or the environment. This could necessitate additional sampling, health risk assessment, and mitigation measures. The levels of residual contamination and any associated site risk are expected to reduce with time.

Sincerely,

  
for Loretta K. Barsamian  
Executive Officer

Enclosures: Closure Letter  
Site Closure Summary  
Site Location Map (Attachment 1)  
Site Plans (Attachments 2, 3A, and 4)  
Soil Analytical Data, Product Line Samples (Attachment 3B)  
Groundwater Analytical Data, GW-1 (Attachment 3C)  
Soil Analytical Results, Extent of Subsurface Impact (Attachment 5A)  
Groundwater Analytical Data, Extent of Subsurface Impact (Attachment 5B)  
Quarterly Groundwater Monitoring Results (Attachment 6)

cc:  
Miguel Silva (w/o Summary)  
SCVWD  
5750 Almaden Expwy  
San Jose, CA 95118

John Lucio -ERM.  
1777 Botello Dr.  
Suite 260  
Walnut Creek, CA 94596

Ms. Lily Lee  
SWRCB  
UST Cleanup Fund  
1001 I Street  
Sacramento, CA 95814

Mr. Steve Mizera  
SWRCB  
UST Program Inf. Syst.  
1001 I Street  
Sacramento, CA 95814

**California Environmental Protection Agency**





# California Regional Water Quality Control Board

## San Francisco Bay Region



Winston H. Hickox  
Secretary for  
Environmental  
Protection

Internet Address: <http://www.swrcb.ca.gov/rwqcb2>  
1515 Clay Street, Suite 1400, Oakland, California 94612  
Phone (510) 622-2300 • FAX (510) 622-2460

Gray Davis  
Governor

Date: August 26, 2003  
File No. 43-3058 (BGS)

Ms. Julie Newman  
Agilent Technologies Inc.  
350 West Trimble  
San José, CA 95131

Subject: **Case Closure – Agilent Technologies, Inc., 350 W. Trimble Road, San José, CA, SCVWD ID No. 06S1W26H01f, LOP No. 14-594, Santa Clara County**

Dear Ms. Newman:

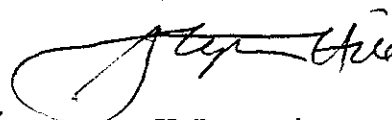
This letter confirms the completion of site investigation and remedial action for the underground storage tanks formerly located at the above described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tanks are greatly appreciated.

Based upon the available information, including the land use, and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground storage tank release is required.

This notice is issued pursuant to a regulation contained in Title 23, California Water Code of Regulations, Division 3, Chapter 16, Section 2721(e). If change in land use is proposed, the owner must promptly notify this agency.

Please contact our office, if you have any questions regarding this matter.

Sincerely,

  
for Loretta K. Barsamian  
Executive Officer

*California Environmental Protection Agency*

## CASE CLOSURE SUMMARY LEAKING UNDERGROUND FUEL STORAGE TANK PROGRAM

### I. AGENCY INFORMATION

Date: August 8, 2003

|                                                |                                  |
|------------------------------------------------|----------------------------------|
| Agency Name: Santa Clara Valley Water District | Address: 5750 Almaden Expressway |
| City/State/Zip: San Jose, CA 95118             | Phone: (408) 265-2600            |
| Responsible Staff Person: Miguel Á. Silva      | Title: Assistant Engineer II     |

### II. CASE INFORMATION

|                                                             |                                      |                      |
|-------------------------------------------------------------|--------------------------------------|----------------------|
| Site Facility Name: Agilent Technologies, Inc.              |                                      |                      |
| Site Facility Address: 350 West Trimble, San Jose, CA 95131 |                                      |                      |
| RB LUSTIS Case No.: N/A                                     | Local Case No.: 06S1W26H01f          | LOP Case No.: 14-594 |
| URF Filing Date: August 28, 2000                            | SWEEPS No.: N/A                      | APN: 097-45-046      |
| Responsible Parties                                         | Addresses                            | Phone Number         |
| Ms. Julie Newman<br>Agilent Technologies Inc.               | 350 West Trimble, San Jose, CA 95131 | (408) 435-6216       |

| Tank I.D. No | Size in Gallons | Contents | Closed<br>In Place/Removed? | Date |
|--------------|-----------------|----------|-----------------------------|------|
| N/A          | 12,000          | Diesel   | Existing                    | N/A  |
| Piping       |                 |          | N/A                         | N/A  |

### III. RELEASE AND SITE CHARACTERIZATION INFORMATION

|                                                                                                                                                                                                                                                                                                       |                                                   |                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|----------------------------------------|
| Cause and Type of Release: A portion of the piping was reported to be broken due to a weakened concrete slab as a result of construction activities. It was reported that 23 gallons of diesel were released from the damaged product line, and the product line was empty at the time of inspection. |                                                   |                                        |
| Site characterization complete? Yes                                                                                                                                                                                                                                                                   | Date Approved By Oversight Agency: August 8, 2003 |                                        |
| Monitoring wells installed? Yes                                                                                                                                                                                                                                                                       | Number: 5*                                        | Proper screened interval? Yes          |
| Highest GW Depth Below Ground Surface: 9 ft                                                                                                                                                                                                                                                           | Lowest Depth: 17 ft                               | Flow Direction: East to East-Southeast |
| Most Sensitive Current Use: Potential drinking water                                                                                                                                                                                                                                                  |                                                   |                                        |

\* One of the wells was installed as an extraction well.

|                                                                                                                                                                                                                                                                                                         |                                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Summary of Production Wells in Vicinity: Eight properly destroyed water production wells are found within ¼ mile radius of the site. Based on the levels of residual contamination at the site and the vicinity of these wells to the site, they are not likely to be impacted by the reported release. |                                              |
| Are drinking water wells affected? No                                                                                                                                                                                                                                                                   | Aquifer Name: Santa Clara Valley Water Basin |

|                                                |                                                            |
|------------------------------------------------|------------------------------------------------------------|
| Is surface water affected? No                  | Nearest SW Name: Guadalupe River, ~900 ft West from site   |
| Off-Site Beneficial Use Impacts: None Reported |                                                            |
| Reports on file? Yes                           | Where are reports filed? Santa Clara Valley Water District |

| TREATMENT AND DISPOSAL OF AFFECTED MATERIAL |                                                                                     |                                              |                                                                                                |
|---------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------|------------------------------------------------------------------------------------------------|
| Material                                    | Amount (Include Units)                                                              | Action (Treatment or Disposal w/Destination) | Date                                                                                           |
| Tank                                        | N/A                                                                                 | N/A                                          | N/A                                                                                            |
| Piping                                      | N/A                                                                                 | N/A                                          | N/A                                                                                            |
| Free Product                                | Unknown                                                                             | Unknown disposal destination                 | Between March and December, 2001                                                               |
| Soil                                        | N/A                                                                                 | N/A                                          | N/A                                                                                            |
| Groundwater                                 | 1,500 gallons<br>1,003 gallons<br>1,001.5 gallons<br>1,000 gallons<br>1,200 gallons | Unknown disposal destination                 | October 30, 2000<br>March 29, 2001<br>June 18, 2001<br>September 20, 2001<br>December 19, 2001 |
| Barrels                                     | N/A                                                                                 | N/A                                          | N/A                                                                                            |

| MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS—BEFORE AND AFTER CLEANUP<br>Please see Attachments 3 through 6 for additional information on contaminant locations and concentrations |                     |                     |                        |                  |                     |                    |                    |                  |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------|------------------------|------------------|---------------------|--------------------|--------------------|------------------|-------|
| Contaminant                                                                                                                                                                         | Soil (ppm)          |                     | Water (ppb)            |                  | Contaminant         | Soil (ppm)         |                    | Water (ppb)      |       |
|                                                                                                                                                                                     | Before              | After               | Before                 | After            |                     | Before             | After              | Before           | After |
| TPH (Gas)                                                                                                                                                                           | NA                  | NA                  | NA                     | NA               | Xylene              | 20 <sup>2</sup>    | 20 <sup>2</sup>    | 130 <sup>3</sup> | ND    |
| TPH (Diesel)                                                                                                                                                                        | 13,000 <sup>1</sup> | 13,000 <sup>1</sup> | 2,000,000 <sup>3</sup> | 980 <sup>4</sup> | Ethylbenzene        | 0.012 <sup>2</sup> | 0.012 <sup>2</sup> | ND               | ND    |
| Benzene                                                                                                                                                                             | ND                  | ND                  | ND                     | ND               | Oil & Grease        | NA                 | NA                 | NA               | NA    |
| Toluene                                                                                                                                                                             | ND                  | ND                  | 11 <sup>3</sup>        | ND               | Heavy Metals (Lead) | NA                 | NA                 | NA               | NA    |
| Other (8240/8270)                                                                                                                                                                   | NA                  | NA                  | NA                     | NA               | MTBE                | <5                 | <5                 | 100 <sup>3</sup> | <0.5  |

Description of Interim Remediation Activities: Please see site history.

NA = No analysis for this compound. ND = Not detected at the laboratory detection limit.

1. This soil sample was collected at 15 to 16 feet below ground surface (bgs) from boring PL-2 in September 2000.
2. This soil sample (PL-1) was collected beneath the product lines at 9.5 feet bgs in August 2000.
3. This grab groundwater sample (GW-1) was collected from boring PL-2 in September 2000; MtBE was sampled via EPA Method 8020.
4. This groundwater sample was collected from well EX-1 in December 2001.

#### IV. CLOSURE

|                                                                                                                                                                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Yes                                                                                                                                                           |
| Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes                                                                                                                                                          |
| Does corrective action protect public health for current land use? Santa Clara Valley Water District staff does not make specific determinations concerning public health risk. However, it does not appear that the release would present a risk to human health. |
| Site Management Requirements: Residual contamination both in soil and groundwater remains at the site that could pose an unacceptable risk under certain site development activities such as site grading, excavation, or the installation of water wells.         |

Therefore, the impact of the disturbance of any residual contamination or the installation of a water well in the vicinity of the residual contamination shall be assessed and appropriate action taken so that there is no significant impact to human health, safety, or the environment. This could necessitate additional sampling, health risk assessment, and mitigation measures. The District and the appropriate planning and building department shall be notified prior to any changes in land use, grading activities, excavation, and installation of water wells. This notification shall include a statement that residual contamination exists on the property and list all mitigation actions, if any, necessary to ensure compliance with this site management requirement. The levels of residual contamination and any associated site risk are expected to reduce with time.

Should corrective action be reviewed if land use changes? No

Monitoring Wells Commissioned: 5

Number Decommissioned: 5\*

Number Retained: 0

List Enforcement Actions Taken: None

List Enforcement Actions Rescinded: None

\* Wells associated with site were properly destroyed April 22, 2003.

## V. ADDITIONAL COMMENTS, DATA, ETC.

### Site History:

#### August 2000:

Following the discovery of the release, a trench was excavated approximately 3.5 feet below ground surface (bgs) and 25 feet along the product lines to verify that the product lines were damaged. Approximately ten feet east from the UST, where there was slight staining and odor, the product lines were cut and capped. A pressure test was performed from the UST to the capped line and from the pump to the capped line. Both the UST and pump pressure test indicated no other leaks. The portion of the damaged pipe was reported to have been repaired subsequently.

On August 28, 2000, two soil samples (PL-1 and SW-1) were collected at 6 feet and one foot respectively beneath the product lines and within pea gravel, along the sidewall of the piping trench. Analytical results for the soil samples indicated the presence of up to 7,500 parts per million (ppm) Total Petroleum Hydrocarbon as Diesel (TPHD), 0.012 ppm Ethylbenzene and 0.138 ppm Xylenes. No Benzene or Methyl tert Butyl Ether (MtBE) were detected above the detection limits.

#### September 2000:

On September 1, a boring (PL-2) was drilled to a depth of 19 feet, near where the two former soil samples (PL-1 and SW-1) were collected. Groundwater was encountered at the depth of 16 feet bgs. Two soil samples (PL-2) were collected at the depth of 16 and 19 feet. Analytical results for the soil samples indicated the presence of up to 13,000 ppm TPHD and 20 ppm Xylenes. Benzene and MtBE were not detected. In addition, one grab groundwater (GW-1) was collected at the depth of 17 feet bgs and analyzed; analytical results for this grab groundwater sample indicated the presence of 2,000,000 parts per billion (ppb) TPHD, 11 ppb Toluene, 130 ppb Xylenes, and 100 ppb MtBE.

#### October 2000:

On October 13 and 20, four piezometers (PZ-1 to PZ-4) were installed to 20 feet bgs in the vicinity of the UST area. Soil and groundwater samples were collected and analyzed. Up to 5.6 ppm TPHD was detected in the soil samples: Benzene, Toluene, Ethylbenzene, Xylenes (BTEX), Total Petroleum Hydrocarbons as Gasoline (TPHG), or MtBE were not detected. Analytical results for the groundwater samples indicated the presence of up to 340 ppb TPHD; no TPHG, BTEX, or MtBE were detected. On October 16, an extraction well (EX-1) was installed in the same location where the initial grab groundwater sample was collected (PL-2). On October 30, approximately 1,500 gallons of groundwater were purged from EX-1. A groundwater sample was collected the next day. Sheen was noted in this groundwater sample: analytical results for the sample indicated the presence of 59 ppb TPHG and 8,500 ppb TPHD; BTEX or MtBE were not detected.

#### December 2000:

On December 20 during a sampling event, EX-1 had approximately 0.01 feet of floating product. Approximately 3 gallons of water were purged from PZ-1, PZ-2, and PZ-4, and 20 gallons of water were purged from EX-1. Analytical results for the groundwater sample collected from EX-1 indicated the presence of 16,000 ppb TPHD; no TPHG, BTEX, or MtBE were detected.

#### March 2001:

On March 29, approximately 3 gallons of water were purged from PZ-1, PZ-2, and PZ-4, and 1,000 gallons of water were purged from EX-1. Sheen was noted in the groundwater sample collected from this well. Analytical results for the groundwater sample collected from EX-1 indicated the presence of 1,000 ppb TPHD, 0.81 ppb Toluene, and 0.78 ppb Xylenes. Benzene and MtBE were not detected.

Following the first quarter 2001 sampling event, free product was removed from EX-1 via absorbent socks. The absorbent socks had been used until the fourth quarter 2001 sampling event.

**June 2001:**

On June 18, approximately 1.5 gallons of groundwater were purged from PZ-1, PZ-2, and PZ-3, and approximately 1,000 gallons of groundwater were purged from EX-1. No sheen was detected in any of the groundwater samples. After the groundwater was purged, groundwater samples were collected; analytical results indicated the presence of up to 830 ppb TPHD. BTEX and MtBE were not detected.

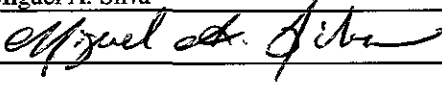
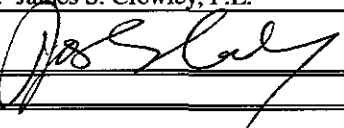
**September and December 2001:**

Two additional rounds of sampling were performed. Approximately 1,000 and 1,200 gallons of water were purged from EX-1 during these two sampling events. No sheen was reported in any groundwater samples collected. Analytical results from the samples collected in December 2001 indicated the presence of 980 ppb TPHD in EX-1. No detection of TPHD, BTEX, or MtBE were detected in any of the other wells.

**Conclusions:**

The discovered contamination appears to be localized within the immediate vicinity of the tank area. In addition, based on recent monitoring results, the residual contamination appears to be stable and it does not appear to pose a significant risk to human health, safety, or the environment. The Santa Clara Valley Water District staff does not believe that a continuing threat to soil or groundwater exists at the site. Therefore, no further corrective action is necessary at this time.

**VI. LOCAL AGENCY REPRESENTATIVE DATA**

|                                                                                               |                                 |
|-----------------------------------------------------------------------------------------------|---------------------------------|
| Prepared by: Miguel Á. Silva                                                                  | Title: Assistant Engineer II    |
| Signature:   | Date: 8/8/03                    |
| Approved by: James S. Crowley, P.E.                                                           | Title: Engineering Unit Manager |
| Signature:  | Date: 8/12/03                   |

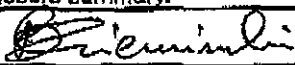
This closure approval is based upon the available information and with the provision that the information provided to this agency was accurate and representative of site conditions.

**Attachments:**

1. Site Vicinity Map
2. Site Plan
3. Sampling locations and analytical results for soil and grab groundwater samples collected in August and September 2000.
4. Site plan with locations of PZ-1 through PZ-4 and EX-1.
5. Analytical results for soil samples collected from PZ-1 through PZ-4 in October 2000.
6. Analytical results for groundwater samples collected from PZ-1 through PZ-4 and EX-1.

This document and the related CASE CLOSURE LETTER, shall be retained by the lead agency as part of the official site file.

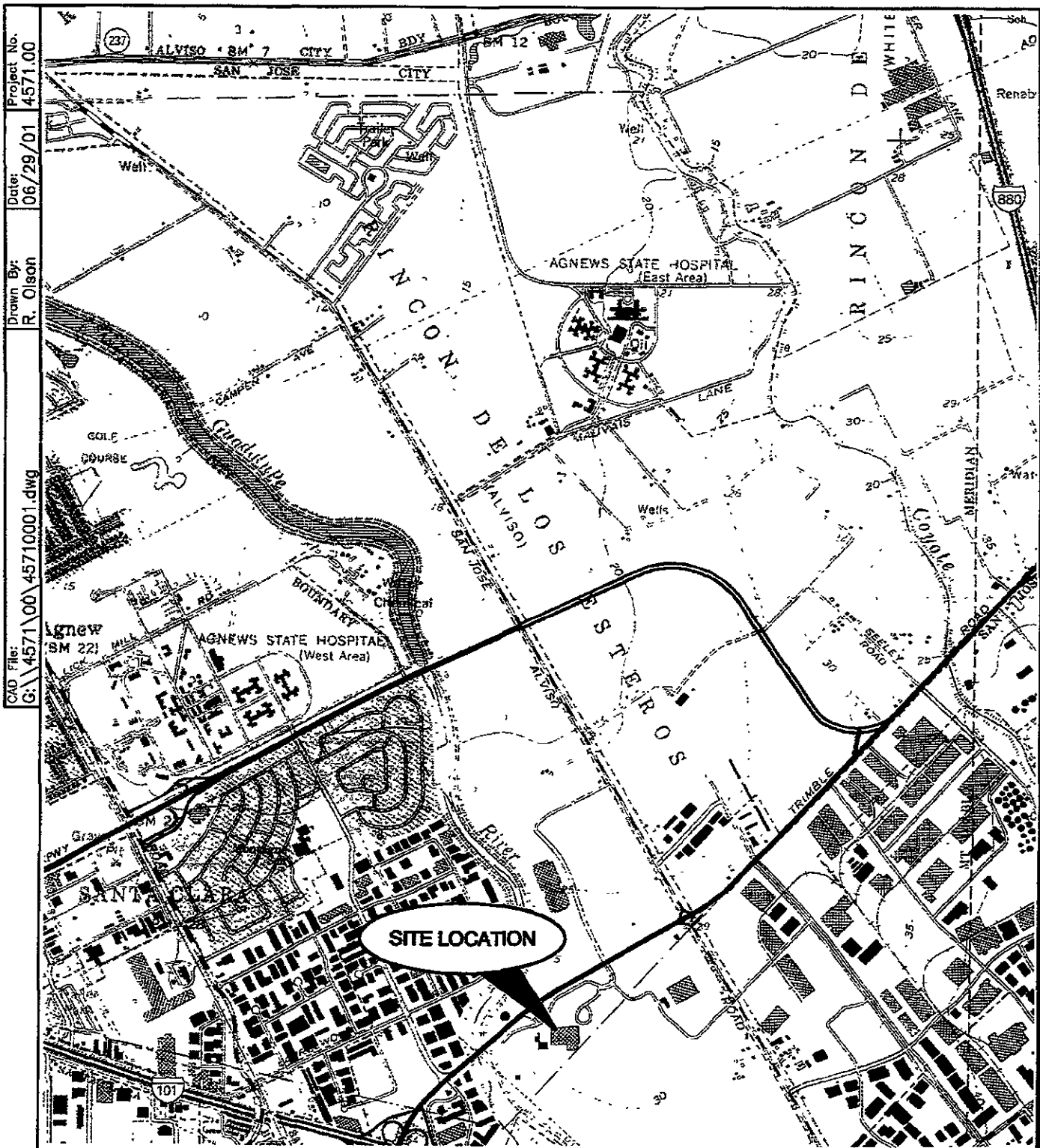
## VII. REGIONAL BOARD NOTIFICATION

|                                                                                              |                               |
|----------------------------------------------------------------------------------------------|-------------------------------|
| Regional Board Staff Name: Barbara Sieminski                                                 | Title: Engineering Geologist  |
| RB Response: Concur, based solely upon information contained in this case closure summary.   | Date Submitted to RB: 8/11/03 |
| Signature:  | Date: 8/18/03                 |

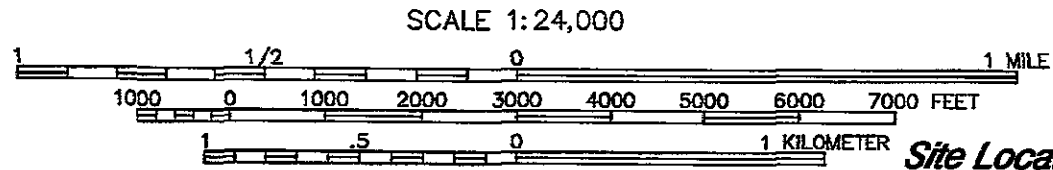
## Attachments:

1. Site Vicinity Map
2. Site Plan
3. Sampling locations and analytical results for soil and grab groundwater samples collected in August and September 2000.
4. Site plan with locations of PZ-1 through PZ-4 and EX-1.
5. Analytical results for soil samples collected from PZ-1 through PZ-4 in October 2000.
6. Analytical results for groundwater samples collected from PZ-1 through PZ-4 and EX-1.

This document and the related CASE CLOSURE LETTER, shall be retained by the lead agency as part of the official site file.



Project No. 4571.00  
 Date: 06/29/01  
 Drawn By: R. Olson  
 CAD File: G:\4571\00\45710001.dwg



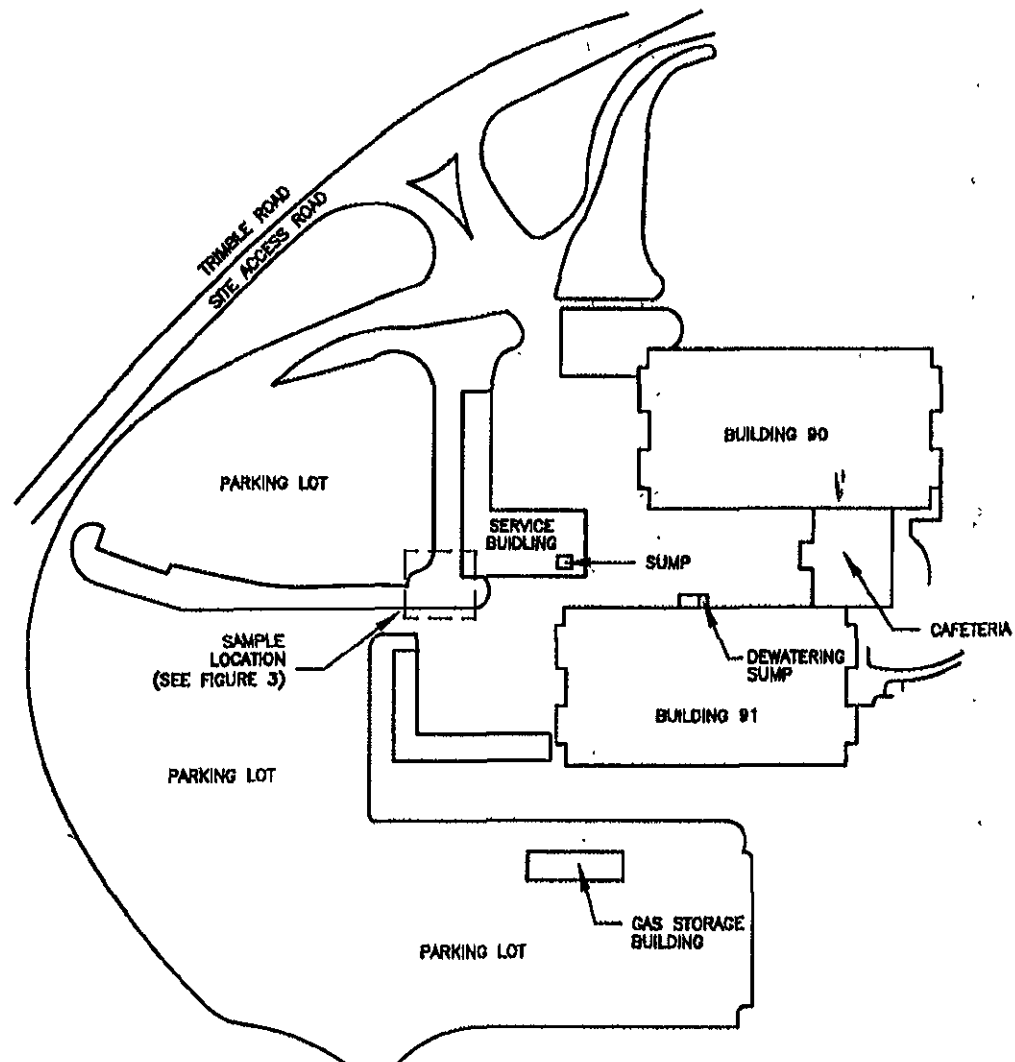
References:  
 U.S.G.S. 7.5 Minute Series  
 Milpitas, CA Quadrangle,  
 Dated: 1961; Photorevised 1980

**Figure 1**  
**Site Location Map**  
**Agilent Technologies, Inc.**  
**350 West Trimble Road**  
**San Jose, California**

ERM 06/01

*Attachment 1*

Attachment 2



NOT TO SCALE

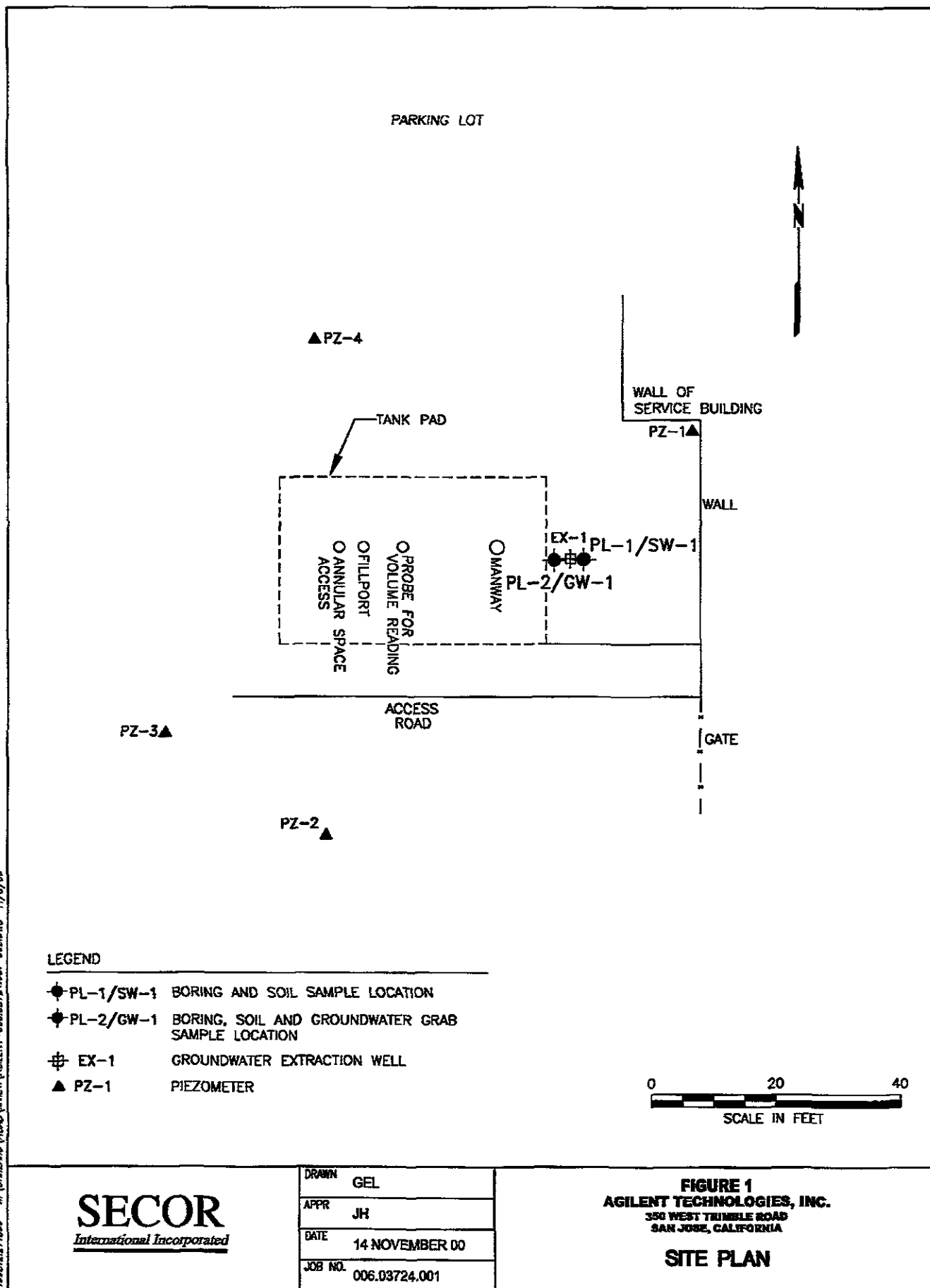
**SECOR**  
International Incorporated

|         |                 |
|---------|-----------------|
| DRAWN   | GEL             |
| APPR    | LO              |
| DATE    | 10 SEPTEMBER 00 |
| JOB NO. | 006.03724.001   |

**FIGURE 2**  
**AGILENT TECHNOLOGIES, INC.**  
350 WEST TRIMBLE ROAD  
SAN JOSE, CALIFORNIA  
**SITE PLAN**



199812.271039 X:\OAKLAND\ACAD\NEW\AGILENT-006.03724.001-002.DWG 11/13/00



Attachment 3A

Table 1  
Soil Analytical Data  
Product Line Samples

Agilent Technologies, Inc.  
350 West Trimble Road  
San Jose, California

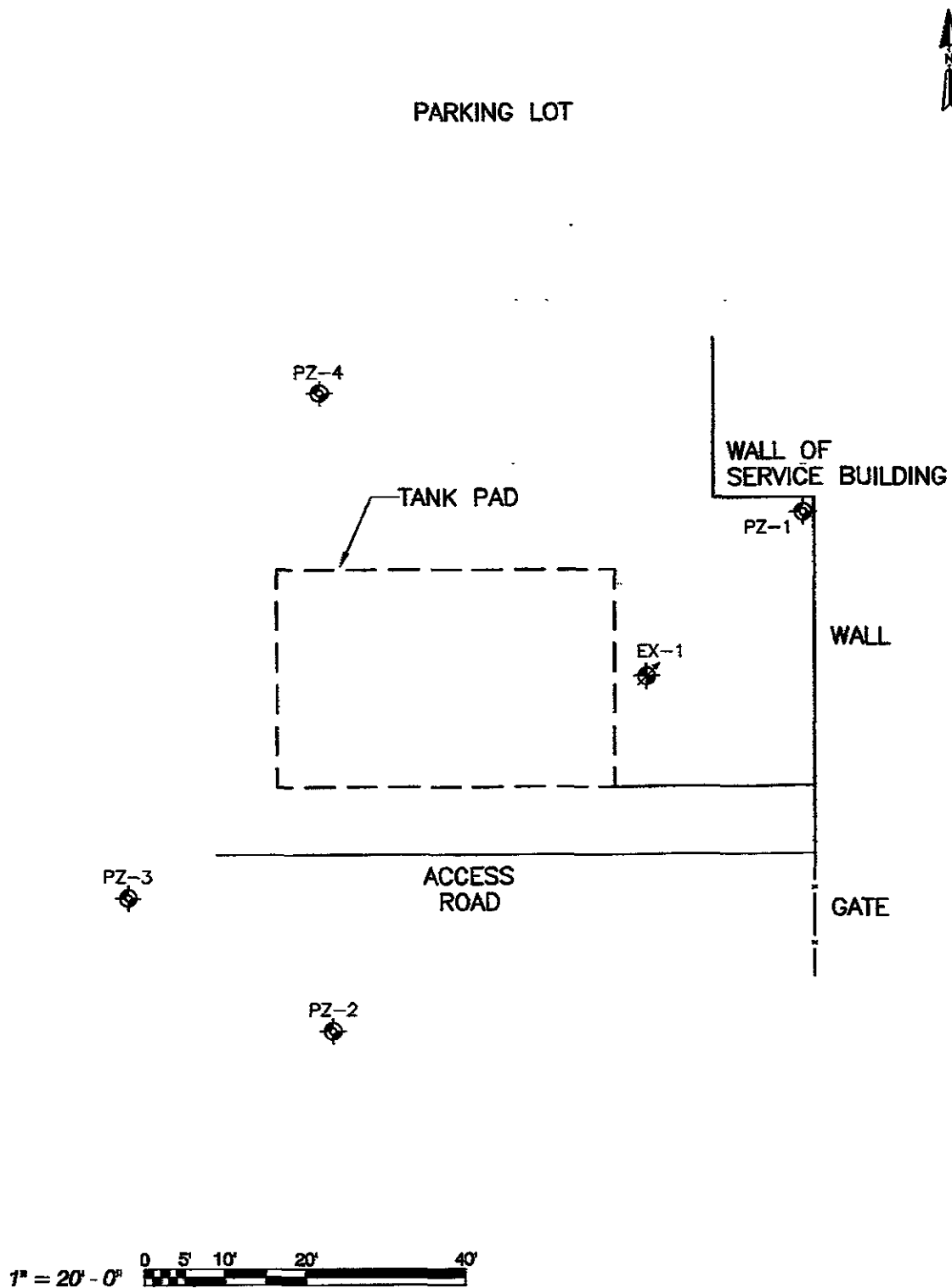
| Sample Name                                                                                                                                                                                                     | Sample Depth (feet) | Date Sampled | TPH as Diesel (mg/kg) | Benzene (ug/kg) | Toluene (ug/kg) | Ethylbenzene (ug/kg) | Xylenes (ug/kg) | MtBE (ug/kg) |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------|-----------------------|-----------------|-----------------|----------------------|-----------------|--------------|
| SW-1 @4.5                                                                                                                                                                                                       | 4.5                 | 8/28/00      | 7,500                 | ND<5            | ND<5            | ND<5                 | 138             | ND<5         |
| PL-1@9.5                                                                                                                                                                                                        | 9.5                 | 8/28/00      | 3,800                 | ND<5            | ND<5            | 12                   | 15              | ND<5         |
| PL-2@15-16                                                                                                                                                                                                      | 15.5                | 9/1/00       | 13,000                | ND<3.1          | ND<3.1          | ND<3.1               | 20,000          | ND<3.1       |
| PL-2@16-19                                                                                                                                                                                                      | 17.5                | 9/1/00       | 200                   | ND<0.62         | ND<0.62         | ND<0.62              | ND<0.62         | ND<0.62      |
| TPH = Total petroleum hydrocarbons<br>MtBE = Methyl tertiary Butyl Ether<br>mg/kg = milligrams per kilogram<br>ug/kg = micrograms per kilogram<br>ND = Not detected above specified laboratory reporting limit. |                     |              |                       |                 |                 |                      |                 |              |

Table 2  
Groundwater Analytical Data  
Agilent Technologies, Inc.  
350 West Trimble Road  
San Jose, California

| Sample Name                                                                                                                                                              | Sample Depth (feet) | Date Sampled | TPH as Diesel (ug/L) | Benzene (ug/L) | Toluene (ug/L) | Ethylbenzene (ug/L) | Xylenes (ug/L) | MtBE* (ug/L) |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------|----------------------|----------------|----------------|---------------------|----------------|--------------|
| GW-1                                                                                                                                                                     | 17                  | 9/1/00       | 2,000,000            | ND<5           | 11             | ND<5                | 130            | 100          |
| TPH = Total petroleum hydrocarbons<br>MtBE = Methyl tertiary Butyl Ether<br>ug/L = micrograms per liter<br>ND = Not detected above specified laboratory reporting limit. |                     |              |                      |                |                |                     |                |              |

\* Via EPA 8020

Project No. 4571.00  
 Date: 06/29/01  
 Drawn By: R. Olson  
 CAD File: C:\4571\00\45710002.dwg



#### LEGEND

-  Ground Water Extraction Well
-  Piezometer

Figure 2  
 Site Plan  
 Agilent Technologies, Inc.  
 350 West Trimble Road  
 San Jose, California

ERM 06/01

Attachment 4

**TABLE 1  
SOIL ANALYTICAL RESULTS**

**EXTENT OF SUBSURFACE IMPACT**

AGILENT TECHNOLOGIES, INC.  
350 WEST TRIMBLE ROAD  
SAN JOSE, CA

| Sample ID     | Depth (ft) | Date     | TPH (mg/kg) | MTBE (mg/kg) | TPH (mg/kg) | TPH (mg/kg) | TPH (mg/kg) | TPH (mg/kg) | TPH (mg/kg) |
|---------------|------------|----------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|
| PZ-1(7-7.5)   | 7.5        | 10/20/00 | 5.6         | ND<1.0       | ND<0.005    | ND<0.005    | ND<0.005    | ND<0.005    | ND<0.005    |
| PZ-1(10-10.5) | 10.5       | 10/20/00 | 1           | ND<1.0       | ND<0.005    | ND<0.005    | ND<0.005    | ND<0.005    | ND<0.005    |
| PZ-2(8-8.5)   | 8.5        | 10/13/00 | ND<1.0      | ND<1.0       | ND<0.005    | ND<0.005    | ND<0.005    | ND<0.005    | ND<0.005    |
| PZ-2(11.5-12) | 12         | 10/13/00 | ND<1.0      | ND<1.0       | ND<0.005    | ND<0.005    | ND<0.005    | ND<0.005    | ND<0.005    |
| PZ-3(6-6.5)   | 6.5        | 10/20/00 | 1.4         | ND<1.0       | ND<0.005    | ND<0.005    | ND<0.008    | ND<0.005    | ND<0.005    |
| PZ-3(9-9.5)   | 9.5        | 10/20/00 | 1.2         | ND<1.0       | ND<0.005    | ND<0.005    | ND<0.007    | ND<0.005    | ND<0.005    |
| PZ-4(5-5.5)   | 5.5        | 10/13/00 | 2.4         | ND<1.0       | ND<0.005    | ND<0.005    | ND<0.008    | ND<0.005    | ND<0.005    |
| PZ-4(10-10.5) | 10.5       | 10/13/00 | ND<1.0      | ND<1.0       | ND<0.005    | ND<0.005    | ND<0.009    | ND<0.005    | ND<0.005    |

TPH = Total petroleum hydrocarbons

MTBE = Methyl tertiary butyl ether

mg/kg = milligrams per kilograms

ND = Not detected above specified laboratory reporting limit

Attachment 5A

**TABLE 2  
GROUNDWATER ANALYTICAL RESULTS**

**EXTENT OF SUBSURFACE IMPACT**

AGILENT TECHNOLOGIES, INC.  
350 WEST TRIMBLE ROAD  
SAN JOSE, CA

| Sample ID | Depth (ft) | Date     | TPH (ug/L) | MTBE (ug/L) | 1,1-DCE (ug/L) | 1,2-DCE (ug/L) | 1,1,1-TCE (ug/L) | 1,1,2-TCE (ug/L) | 1,2,3-TCE (ug/L) |
|-----------|------------|----------|------------|-------------|----------------|----------------|------------------|------------------|------------------|
| PZ-1      | 14         | 10/20/00 | 340        | ND<50       | ND<0.5         | ND<0.5         | ND<0.5           | ND<0.5           | ND<5.0           |
| PZ-2      | 12         | 10/20/00 | ND<50      | ND<50       | ND<0.5         | ND<0.5         | ND<0.5           | ND<0.5           | ND<5.0           |
| PZ-3      | 10         | 10/13/00 | ND<50      | ND<50       | ND<0.5         | ND<0.5         | ND<0.5           | ND<0.5           | ND<5.0           |
| PZ-4      | 11         | 10/13/00 | ND<50      | ND<50       | ND<0.5         | ND<0.5         | ND<0.5           | ND<0.5           | ND<5.0           |
| EX-1      | 13         | 10/20/00 | 8,500      | 59          | ND<0.5         | ND<0.5         | ND<0.5           | ND<0.5           | ND<5.0           |

TPH = Total petroleum hydrocarbons

MTBE = Methyl tertiary butyl ether

ug/L = micrograms per liter

ND = Not detected above specified laboratory reporting limit

Attachment 5B

**Table 1 Quarterly Ground Water Monitoring Results**  
**Agilent Technologies, Inc.**  
**San Jose, California**

| Well Number | Date Sampled | Well Elevation (feet, MSL) | Depth to Water (feet, TOC) | Depth to Product (feet, TOC) | Ground Water Elevation (feet, MSL) | TPH as Gasoline (µg/L) | TPH as Diesel (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Xylenes (µg/L) | MTBE (µg/L) |
|-------------|--------------|----------------------------|----------------------------|------------------------------|------------------------------------|------------------------|----------------------|----------------|----------------|---------------------|----------------|-------------|
| PZ-1        | 10/24/00     | 27.10                      | 13.64                      |                              | 13.46                              | ND<50.0                | 340                  | ND<0.5         | ND<0.5         | ND<0.5              | ND<0.5         | ND<0.5      |
|             | 10/30/00     |                            | 12.97                      |                              | 14.13                              | NS                     | NS                   | NS             | NS             | NS                  | NS             | NS          |
|             | 12/20/00     |                            | 13.50                      |                              | 13.60                              | NA                     | 230                  | ND<0.5         | ND<0.5         | ND<0.5              | ND<0.5         | NA          |
|             | 03/29/01     |                            | 13.30                      |                              | 13.80                              | NA                     | 200                  | ND<0.5         | ND<0.5         | ND<0.5              | ND<0.5         | NA          |
|             | 06/18/01     |                            | 12.70                      |                              | 14.40                              | NA                     | 180                  | ND<0.5         | ND<0.5         | ND<0.5              | ND<0.5         | NA          |
|             | 09/20/01     |                            | 12.97                      |                              | 14.13                              | NA                     | 210                  | ND<0.5         | ND<0.5         | ND<0.5              | ND<0.5         | NA          |
|             | 12/19/01     |                            | 13.13                      |                              | 13.97                              | NA                     | 210                  | ND<0.5         | ND<0.5         | ND<0.5              | ND<0.5         | NA          |
| PZ-2        | 10/24/00     | 25.55                      | 11.84                      |                              | 13.71                              | ND<50.0                | ND<50.0              | ND<0.5         | ND<0.5         | ND<0.5              | ND<0.5         | ND<5.0      |
|             | 10/30/00     |                            | 11.13                      |                              | 14.42                              | NS                     | NS                   | NS             | NS             | NS                  | NS             | NS          |
|             | 12/20/00     |                            | 11.73                      |                              | 13.82                              | NA                     | ND<50.0              | ND<0.5         | ND<0.5         | ND<0.5              | ND<0.5         | NA          |
|             | 03/29/01     |                            | 11.44                      |                              | 14.11                              | NA                     | ND<50.0              | ND<0.5         | ND<0.5         | ND<0.5              | ND<0.5         | NA          |
|             | 06/18/01     |                            | 10.90                      |                              | 14.65                              | NA                     | ND<50.0              | ND<0.5         | ND<0.5         | ND<0.5              | ND<0.5         | NA          |
|             | 09/20/01     |                            | 11.14                      |                              | 14.41                              | NA                     | ND<50.0              | ND<0.5         | ND<0.5         | ND<0.5              | ND<0.5         | NA          |
|             | 12/19/01     |                            | 11.41                      |                              | 14.14                              | NA                     | ND<50.0              | ND<0.5         | ND<0.5         | ND<0.5              | ND<0.5         | NA          |
| PZ-3        | 10/24/00     | 23.88                      | 9.99                       |                              | 13.89                              | ND<50.0                | ND<50.0              | ND<0.5         | ND<0.5         | ND<0.5              | ND<0.5         | ND<5.0      |
|             | 10/30/01     |                            | 9.21                       |                              | 14.67                              | NS                     | NS                   | NS             | NS             | NS                  | NS             | NS          |
|             | 12/20/00     |                            | 9.89                       |                              | 13.88                              | NA                     | ND<50.0              | ND>0.5         | ND>0.5         | ND>0.5              | ND>0.5         | NA          |
|             | 03/29/01     |                            | 9.55                       |                              | 14.33                              | NS                     | NS                   | NS             | NS             | NS                  | NS             | NS          |
|             | 06/18/01     |                            | 9.00                       |                              | 14.88                              | NS                     | NS                   | NS             | NS             | NS                  | NS             | NS          |
|             | 09/20/01     |                            | 9.18                       |                              | 14.70                              | NS                     | NS                   | NS             | NS             | NS                  | NS             | NS          |
|             | 12/19/01     |                            | 9.56                       |                              | 14.32                              | NS                     | NS                   | NS             | NS             | NS                  | NS             | NS          |
| PZ-4        | 10/24/00     | 24.46                      | 10.65                      |                              | 13.81                              | ND<50.0                | ND<50.0              | ND<0.5         | ND<0.5         | ND<0.5              | ND<0.5         | ND<5.0      |
|             | 10/30/01     |                            | 9.88                       |                              | 14.58                              | NS                     | NS                   | NS             | NS             | NS                  | NS             | NS          |
|             | 12/20/00     |                            | 10.58                      |                              | 13.88                              | NA                     | ND<50.0              | ND>0.5         | ND>0.5         | ND>0.5              | ND>0.5         | NA          |
|             | 03/29/01     |                            | 10.24                      |                              | 14.22                              | NA                     | ND<50.0              | ND>0.5         | ND>0.5         | ND>0.5              | ND>0.5         | NA          |
|             | 06/18/01     |                            | 9.77                       |                              | 14.69                              | NA                     | ND<50.0              | ND<0.5         | ND<0.5         | ND<0.5              | ND<0.5         | NA          |
|             | 09/20/01     |                            | 9.78                       |                              | 14.68                              | NA                     | ND<50.0              | ND<0.5         | ND<0.5         | ND<0.5              | ND<0.5         | NA          |
|             | 12/19/01     |                            | 10.25                      |                              | 14.21                              | NA                     | ND<50.0              | ND<0.5         | ND<0.5         | ND<0.5              | ND<0.5         | NA          |
| EX-1        | 10/30/00     | 26.48                      | 12.97                      | 12.97 (Sheen)                | 13.51                              | 59                     | 8,500                | ND<0.5         | ND<0.5         | ND<0.5              | ND<0.5         | ND<5.0      |
|             | 12/20/00     |                            | 13.07                      | 13.06                        | 13.41                              | NA                     | 16,000               | ND<0.5         | ND<0.5         | ND<0.5              | ND<0.5         | ND<5.0      |
|             | 03/29/01     |                            | 12.41                      | 12.41 (Sheen)                | 14.07                              | NA                     | 1,000                | ND<0.5         | 0.81           | ND<0.5              | 0.78           | ND<5.0      |
|             | 06/18/01     |                            | 11.92                      |                              | 14.56                              | NA                     | 830                  | ND<0.5         | ND<0.5         | ND<0.5              | ND<0.5         | ND<5.0      |
|             | 09/20/01     |                            | 12.20                      |                              | 14.28                              | NA                     | 1,200                | ND<0.5         | ND<0.5         | ND<0.5              | ND<0.5         | ND<5.0      |
|             | 12/19/01     |                            | 12.23                      |                              | 14.25                              | NA                     | 980                  | ND<0.5         | ND<0.5         | ND<0.5              | ND<0.5         | ND<5.0      |

**Notes:**

TPH = Total petroleum hydrocarbons

MTBE = Methyl tertiary butyl ether

µg/L = microgram/liter

MSL = Mean sea level

TOC = Top of casing

ND = Not detected above specified laboratory reporting limit

NA = Not analyzed

NS = Not sampled

Attachment 6

# **ATTACHMENT DR HAZ-12**

FAA Determinations of No Hazard





Mail Processing Center  
Federal Aviation Administration  
Southwest Regional Office  
Obstruction Evaluation Group  
10101 Hillwood Parkway  
Fort Worth, TX 76177

Aeronautical Study No.  
2025-AWP-2200-OE

Issued Date: 03/25/2025

Anthony Calderone  
Trimble North Town, LLC  
3347 Michelson Drive  
Suite 200  
Irvine, CA 92612

**\*\* DETERMINATION OF NO HAZARD TO AIR NAVIGATION \*\***

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

|            |                                                                                                        |
|------------|--------------------------------------------------------------------------------------------------------|
| Structure: | Commercial Use Building LBA Data Center North                                                          |
| Location:  | San Jose, CA                                                                                           |
| Latitude:  | 37-22-59.18N NAD 83                                                                                    |
| Longitude: | 121-55-56.31W                                                                                          |
| Heights:   | 29 feet site elevation (SE)<br>66 feet above ground level (AGL)<br>95 feet above mean sea level (AMSL) |

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

- ☐ At least 10 days prior to start of construction (7460-2, Part 1)  
☒ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M Change 1.

The structure considered under this study lies in proximity to an airport and occupants may be subjected to noise from aircraft operating to and from the airport.

This determination expires on 09/25/2026 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.

- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact Justin Hetland, at (847) 294-8084, or [justin.hetland@faa.gov](mailto:justin.hetland@faa.gov). On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2025-AWP-2200-OE.

**Signature Control No: 648383320-651553943**

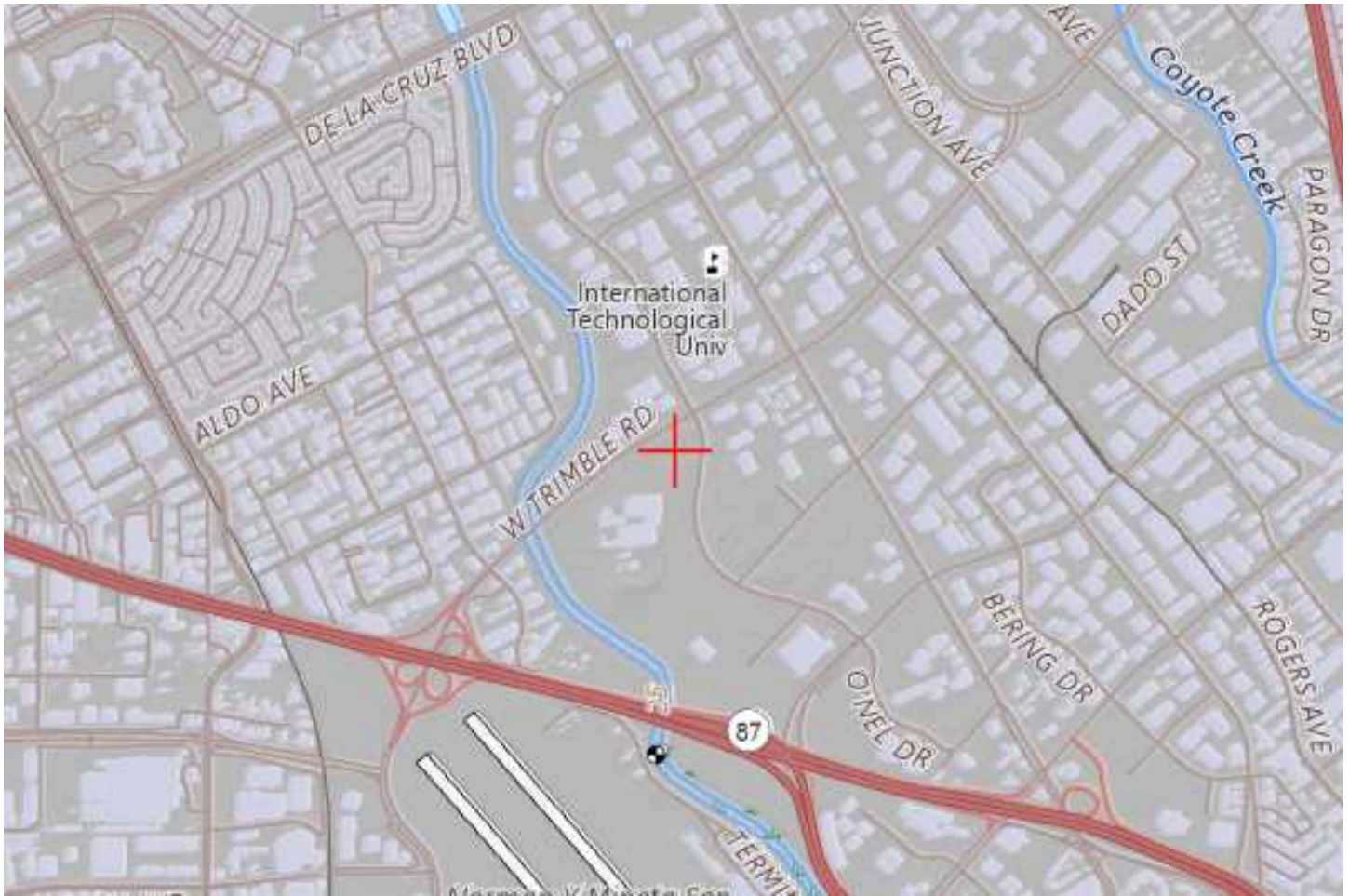
( DNE )

Julie A. Morgan

Manager, Obstruction Evaluation Group

Attachment(s)

Map(s)









Mail Processing Center  
Federal Aviation Administration  
Southwest Regional Office  
Obstruction Evaluation Group  
10101 Hillwood Parkway  
Fort Worth, TX 76177

Aeronautical Study No.  
2025-AWP-2157-OE

Issued Date: 03/25/2025

Anthony Calderone  
Trimble North Town, LLC  
3347 Michelson Drive  
Suite 200  
Irvine, CA 92612

**\*\* DETERMINATION OF NO HAZARD TO AIR NAVIGATION \*\***

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

|            |                                                                                                        |
|------------|--------------------------------------------------------------------------------------------------------|
| Structure: | Commercial Use Building LBA Data Center West                                                           |
| Location:  | San Jose, CA                                                                                           |
| Latitude:  | 37-22-52.05N NAD 83                                                                                    |
| Longitude: | 121-56-09.09W                                                                                          |
| Heights:   | 30 feet site elevation (SE)<br>66 feet above ground level (AGL)<br>96 feet above mean sea level (AMSL) |

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

- ☐ At least 10 days prior to start of construction (7460-2, Part 1)  
☒ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M Change 1.

The structure considered under this study lies in proximity to an airport and occupants may be subjected to noise from aircraft operating to and from the airport.

This determination expires on 09/25/2026 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.

- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact Justin Hetland, at (847) 294-8084, or [justin.hetland@faa.gov](mailto:justin.hetland@faa.gov). On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2025-AWP-2157-OE.

**Signature Control No: 648254780-651553944**

( DNE )

Julie A. Morgan

Manager, Obstruction Evaluation Group

Attachment(s)

Map(s)











Mail Processing Center  
Federal Aviation Administration  
Southwest Regional Office  
Obstruction Evaluation Group  
10101 Hillwood Parkway  
Fort Worth, TX 76177

Aeronautical Study No.  
2025-AWP-2196-OE

Issued Date: 03/25/2025

Anthony Calderone  
Trimble North Town, LLC  
3347 Michelson Drive  
Suite 200  
Irvine, CA 92612

**\*\* DETERMINATION OF NO HAZARD TO AIR NAVIGATION \*\***

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

|            |                                                                                                        |
|------------|--------------------------------------------------------------------------------------------------------|
| Structure: | Commercial Use Building LBA Data Center North                                                          |
| Location:  | San Jose, CA                                                                                           |
| Latitude:  | 37-22-56.00N NAD 83                                                                                    |
| Longitude: | 121-56-02.16W                                                                                          |
| Heights:   | 29 feet site elevation (SE)<br>66 feet above ground level (AGL)<br>95 feet above mean sea level (AMSL) |

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

- ☐ At least 10 days prior to start of construction (7460-2, Part 1)  
☒ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M Change 1.

The structure considered under this study lies in proximity to an airport and occupants may be subjected to noise from aircraft operating to and from the airport.

This determination expires on 09/25/2026 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.

- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

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This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact Justin Hetland, at (847) 294-8084, or [justin.hetland@faa.gov](mailto:justin.hetland@faa.gov). On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2025-AWP-2196-OE.

**Signature Control No: 648383316-651553945**

( DNE )

Julie A. Morgan

Manager, Obstruction Evaluation Group

Attachment(s)

Map(s)









Mail Processing Center  
Federal Aviation Administration  
Southwest Regional Office  
Obstruction Evaluation Group  
10101 Hillwood Parkway  
Fort Worth, TX 76177

Aeronautical Study No.  
2025-AWP-2195-OE

Issued Date: 03/25/2025

Anthony Calderone  
Trimble North Town, LLC  
3347 Michelson Drive  
Suite 200  
Irvine, CA 92612

**\*\* DETERMINATION OF NO HAZARD TO AIR NAVIGATION \*\***

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

|            |                                                                                                        |
|------------|--------------------------------------------------------------------------------------------------------|
| Structure: | Commercial Use Building LBA Data Center North                                                          |
| Location:  | San Jose, CA                                                                                           |
| Latitude:  | 37-22-59.36N NAD 83                                                                                    |
| Longitude: | 121-55-59.50W                                                                                          |
| Heights:   | 29 feet site elevation (SE)<br>66 feet above ground level (AGL)<br>95 feet above mean sea level (AMSL) |

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

- ☐ At least 10 days prior to start of construction (7460-2, Part 1)  
☒ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M Change 1.

The structure considered under this study lies in proximity to an airport and occupants may be subjected to noise from aircraft operating to and from the airport.

This determination expires on 09/25/2026 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.

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This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact Justin Hetland, at (847) 294-8084, or [justin.hetland@faa.gov](mailto:justin.hetland@faa.gov). On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2025-AWP-2195-OE.

**Signature Control No: 648383315-651553946**

( DNE )

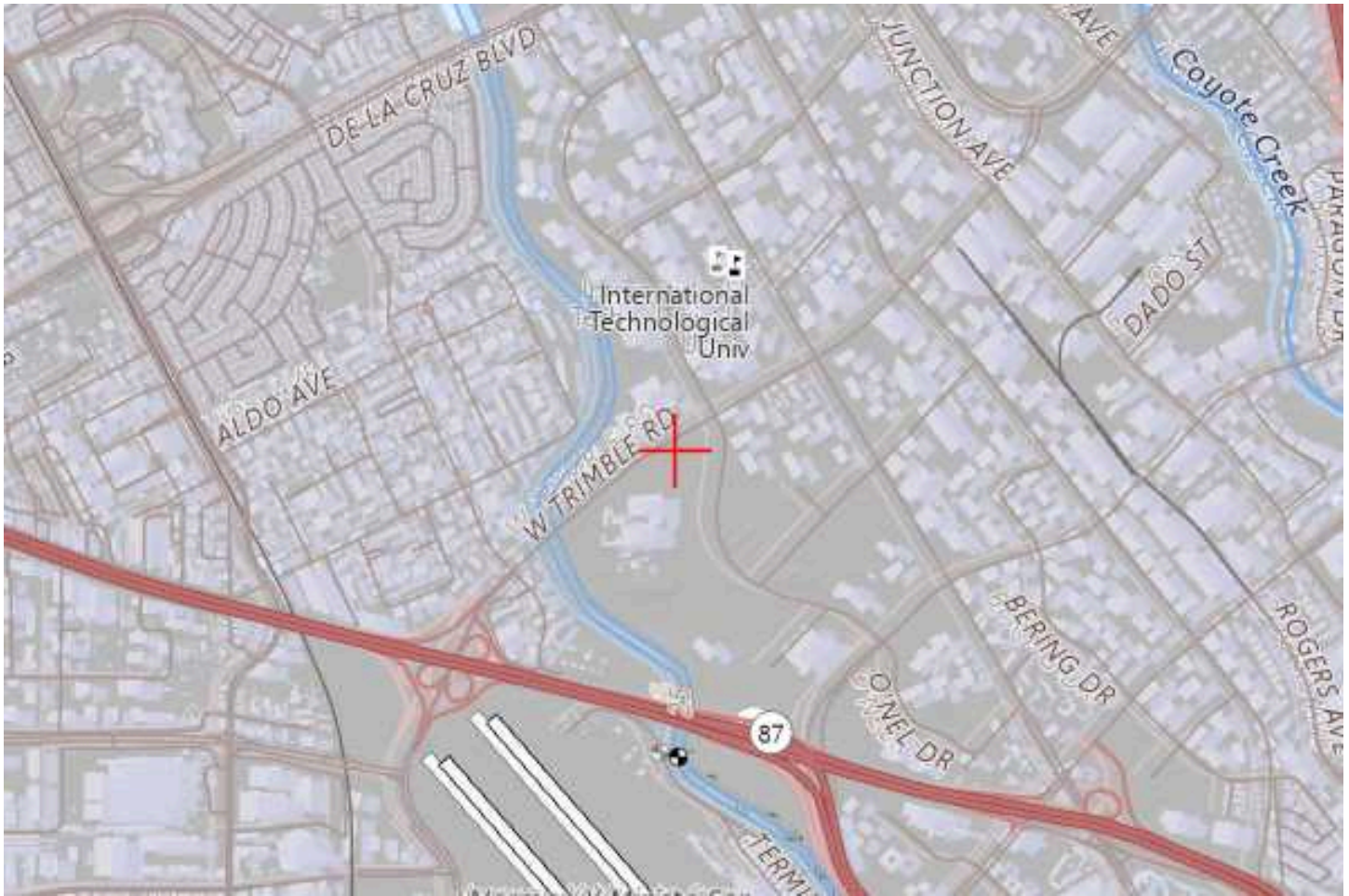
Julie A. Morgan

Manager, Obstruction Evaluation Group

Attachment(s)

Map(s)











Mail Processing Center  
Federal Aviation Administration  
Southwest Regional Office  
Obstruction Evaluation Group  
10101 Hillwood Parkway  
Fort Worth, TX 76177

Aeronautical Study No.  
2025-AWP-2152-OE

Issued Date: 03/25/2025

Anthony Calderone  
Trimble North Town, LLC  
3347 Michelson Drive  
Suite 200  
Irvine, CA 92612

**\*\* DETERMINATION OF NO HAZARD TO AIR NAVIGATION \*\***

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

|            |                                                                                                        |
|------------|--------------------------------------------------------------------------------------------------------|
| Structure: | Commercial Use Building LBA Data Center West                                                           |
| Location:  | San Jose, CA                                                                                           |
| Latitude:  | 37-22-49.72N NAD 83                                                                                    |
| Longitude: | 121-56-11.91W                                                                                          |
| Heights:   | 30 feet site elevation (SE)<br>66 feet above ground level (AGL)<br>96 feet above mean sea level (AMSL) |

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

- ☐ At least 10 days prior to start of construction (7460-2, Part 1)  
☒ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M Change 1.

The structure considered under this study lies in proximity to an airport and occupants may be subjected to noise from aircraft operating to and from the airport.

This determination expires on 09/25/2026 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.

- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

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This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact Justin Hetland, at (847) 294-8084, or [justin.hetland@faa.gov](mailto:justin.hetland@faa.gov). On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2025-AWP-2152-OE.

**Signature Control No: 648254774-651553947**

( DNE )

Julie A. Morgan

Manager, Obstruction Evaluation Group

Attachment(s)

Map(s)









Mail Processing Center  
Federal Aviation Administration  
Southwest Regional Office  
Obstruction Evaluation Group  
10101 Hillwood Parkway  
Fort Worth, TX 76177

Aeronautical Study No.  
2025-AWP-2155-OE

Issued Date: 03/25/2025

Anthony Calderone  
Trimble North Town, LLC  
3347 Michelson Drive  
Suite 200  
Irvine, CA 92612

**\*\* DETERMINATION OF NO HAZARD TO AIR NAVIGATION \*\***

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

|            |                                                                                                        |
|------------|--------------------------------------------------------------------------------------------------------|
| Structure: | Commercial Use Building LBA Data Center West                                                           |
| Location:  | San Jose, CA                                                                                           |
| Latitude:  | 37-22-51.06N NAD 83                                                                                    |
| Longitude: | 121-56-11.05W                                                                                          |
| Heights:   | 30 feet site elevation (SE)<br>66 feet above ground level (AGL)<br>96 feet above mean sea level (AMSL) |

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

- ☐ At least 10 days prior to start of construction (7460-2, Part 1)  
☒ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M Change 1.

The structure considered under this study lies in proximity to an airport and occupants may be subjected to noise from aircraft operating to and from the airport.

This determination expires on 09/25/2026 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.

- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

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This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact Justin Hetland, at (847) 294-8084, or [justin.hetland@faa.gov](mailto:justin.hetland@faa.gov). On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2025-AWP-2155-OE.

**Signature Control No: 648254777-651553948**

( DNE )

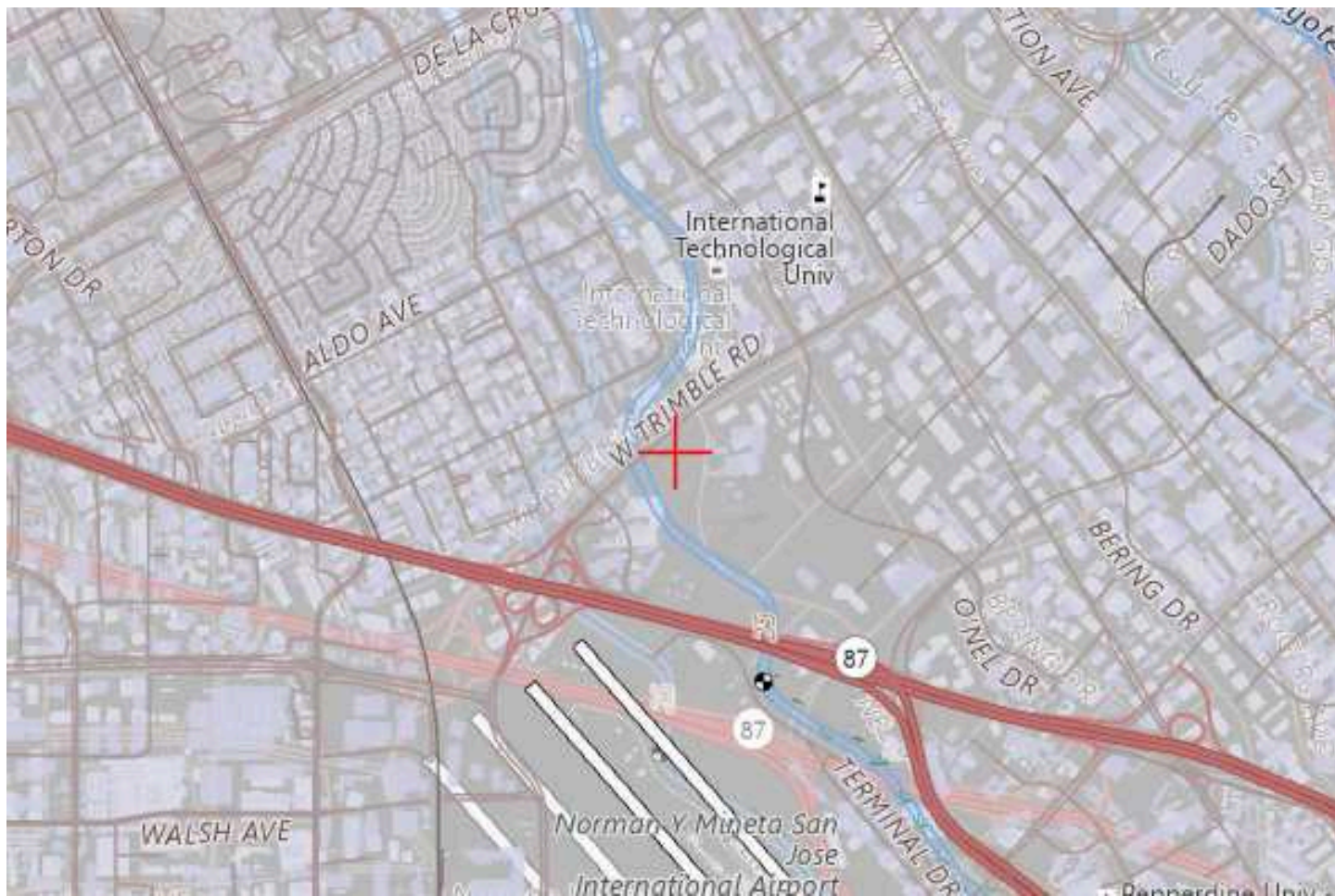
Julie A. Morgan

Manager, Obstruction Evaluation Group

Attachment(s)

Map(s)











Mail Processing Center  
Federal Aviation Administration  
Southwest Regional Office  
Obstruction Evaluation Group  
10101 Hillwood Parkway  
Fort Worth, TX 76177

Aeronautical Study No.  
2025-AWP-2153-OE

Issued Date: 03/25/2025

Anthony Calderone  
Trimble North Town, LLC  
3347 Michelson Drive  
Suite 200  
Irvine, CA 92612

**\*\* DETERMINATION OF NO HAZARD TO AIR NAVIGATION \*\***

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

|            |                                                                                                        |
|------------|--------------------------------------------------------------------------------------------------------|
| Structure: | Commercial Use Building LBA Data Center West                                                           |
| Location:  | San Jose, CA                                                                                           |
| Latitude:  | 37-22-49.79N NAD 83                                                                                    |
| Longitude: | 121-56-11.55W                                                                                          |
| Heights:   | 30 feet site elevation (SE)<br>66 feet above ground level (AGL)<br>96 feet above mean sea level (AMSL) |

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

- ☐ At least 10 days prior to start of construction (7460-2, Part 1)  
☒ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M Change 1.

The structure considered under this study lies in proximity to an airport and occupants may be subjected to noise from aircraft operating to and from the airport.

This determination expires on 09/25/2026 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.

- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

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This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

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This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact Justin Hetland, at (847) 294-8084, or [justin.hetland@faa.gov](mailto:justin.hetland@faa.gov). On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2025-AWP-2153-OE.

**Signature Control No: 648254775-651553949**

( DNE )

Julie A. Morgan

Manager, Obstruction Evaluation Group

Attachment(s)

Map(s)









Mail Processing Center  
Federal Aviation Administration  
Southwest Regional Office  
Obstruction Evaluation Group  
10101 Hillwood Parkway  
Fort Worth, TX 76177

Aeronautical Study No.  
2025-AWP-2192-OE

Issued Date: 03/25/2025

Anthony Calderone  
Trimble North Town, LLC  
3347 Michelson Drive  
Suite 200  
Irvine, CA 92612

**\*\* DETERMINATION OF NO HAZARD TO AIR NAVIGATION \*\***

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

|            |                                                                                                        |
|------------|--------------------------------------------------------------------------------------------------------|
| Structure: | Commercial Use Building LBA Data Center North                                                          |
| Location:  | San Jose, CA                                                                                           |
| Latitude:  | 37-22-57.45N NAD 83                                                                                    |
| Longitude: | 121-56-03.11W                                                                                          |
| Heights:   | 29 feet site elevation (SE)<br>66 feet above ground level (AGL)<br>95 feet above mean sea level (AMSL) |

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

- ☐ At least 10 days prior to start of construction (7460-2, Part 1)  
☒ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M Change 1.

The structure considered under this study lies in proximity to an airport and occupants may be subjected to noise from aircraft operating to and from the airport.

This determination expires on 09/25/2026 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.

- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact Justin Hetland, at (847) 294-8084, or [justin.hetland@faa.gov](mailto:justin.hetland@faa.gov). On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2025-AWP-2192-OE.

**Signature Control No: 648383312-651553950**

( DNE )

Julie A. Morgan

Manager, Obstruction Evaluation Group

Attachment(s)

Map(s)











Mail Processing Center  
Federal Aviation Administration  
Southwest Regional Office  
Obstruction Evaluation Group  
10101 Hillwood Parkway  
Fort Worth, TX 76177

Aeronautical Study No.  
2025-AWP-2202-OE

Issued Date: 03/25/2025

Anthony Calderone  
Trimble North Town, LLC  
3347 Michelson Drive  
Suite 200  
Irvine, CA 92612

**\*\* DETERMINATION OF NO HAZARD TO AIR NAVIGATION \*\***

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

|            |                                                                                                        |
|------------|--------------------------------------------------------------------------------------------------------|
| Structure: | Commercial Use Building LBA Data Center North                                                          |
| Location:  | San Jose, CA                                                                                           |
| Latitude:  | 37-22-58.35N NAD 83                                                                                    |
| Longitude: | 121-55-56.49W                                                                                          |
| Heights:   | 29 feet site elevation (SE)<br>66 feet above ground level (AGL)<br>95 feet above mean sea level (AMSL) |

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

- ☐ At least 10 days prior to start of construction (7460-2, Part 1)  
☒ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M Change 1.

The structure considered under this study lies in proximity to an airport and occupants may be subjected to noise from aircraft operating to and from the airport.

This determination expires on 09/25/2026 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.

- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

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This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact Justin Hetland, at (847) 294-8084, or [justin.hetland@faa.gov](mailto:justin.hetland@faa.gov). On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2025-AWP-2202-OE.

**Signature Control No: 648383322-651553951**

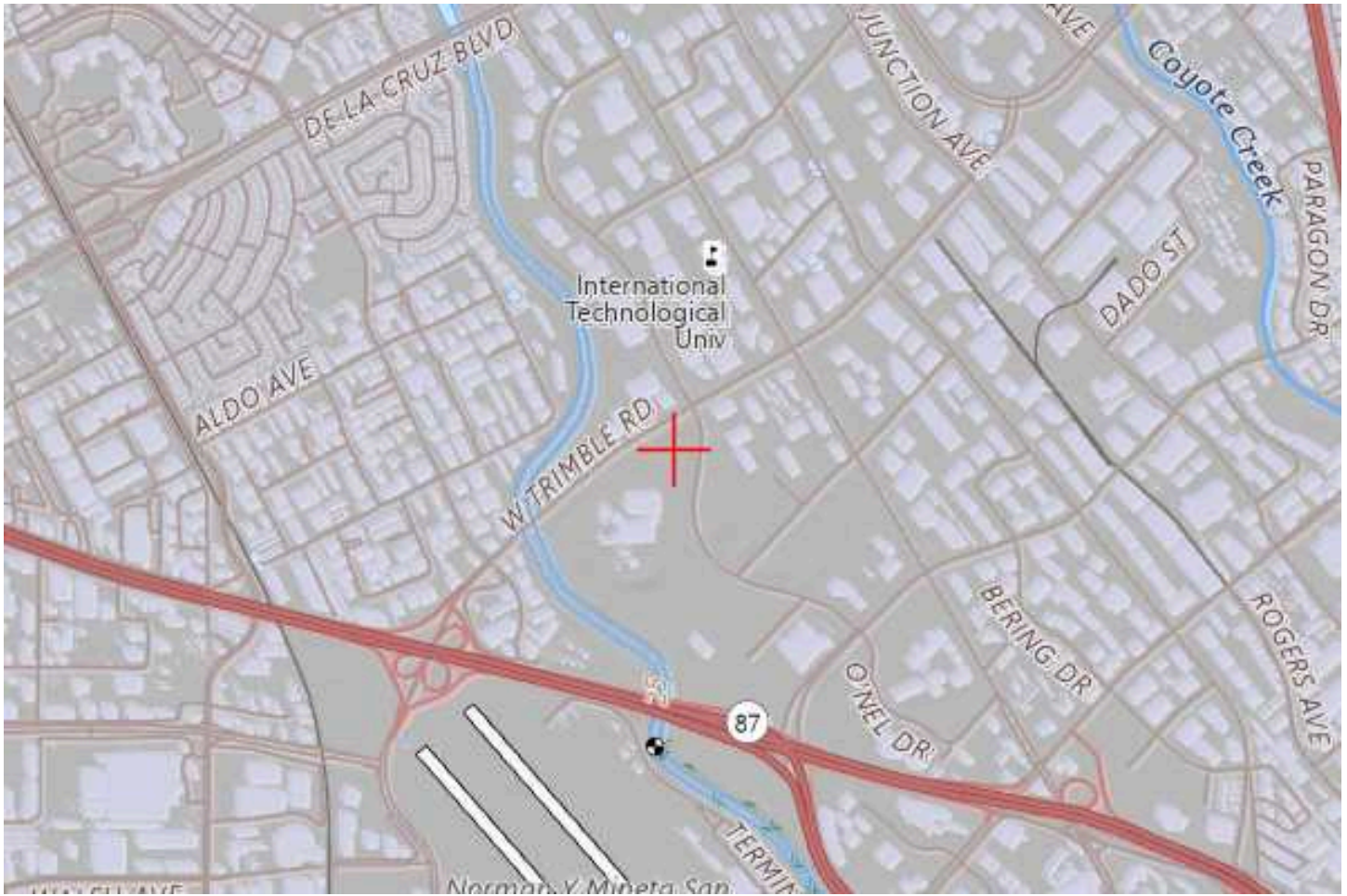
( DNE )

Julie A. Morgan

Manager, Obstruction Evaluation Group

Attachment(s)

Map(s)









Mail Processing Center  
Federal Aviation Administration  
Southwest Regional Office  
Obstruction Evaluation Group  
10101 Hillwood Parkway  
Fort Worth, TX 76177

Aeronautical Study No.  
2025-AWP-2150-OE

Issued Date: 03/25/2025

Anthony Calderone  
Trimble North Town, LLC  
3347 Michelson Drive  
Suite 200  
Irvine, CA 92612

**\*\* DETERMINATION OF NO HAZARD TO AIR NAVIGATION \*\***

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

|            |                                                                                                        |
|------------|--------------------------------------------------------------------------------------------------------|
| Structure: | Commercial Use Building LBA Data Center West                                                           |
| Location:  | San Jose, CA                                                                                           |
| Latitude:  | 37-22-48.10N NAD 83                                                                                    |
| Longitude: | 121-56-10.39W                                                                                          |
| Heights:   | 30 feet site elevation (SE)<br>66 feet above ground level (AGL)<br>96 feet above mean sea level (AMSL) |

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

- ☐ At least 10 days prior to start of construction (7460-2, Part 1)  
☒ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M Change 1.

The structure considered under this study lies in proximity to an airport and occupants may be subjected to noise from aircraft operating to and from the airport.

This determination expires on 09/25/2026 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.

- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

**NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.**

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

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This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact Justin Hetland, at (847) 294-8084, or [justin.hetland@faa.gov](mailto:justin.hetland@faa.gov). On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2025-AWP-2150-OE.

**Signature Control No: 648254770-651553952**

( DNE )

Julie A. Morgan

Manager, Obstruction Evaluation Group

Attachment(s)

Map(s)











Mail Processing Center  
Federal Aviation Administration  
Southwest Regional Office  
Obstruction Evaluation Group  
10101 Hillwood Parkway  
Fort Worth, TX 76177

Aeronautical Study No.  
2025-AWP-2201-OE

Issued Date: 03/25/2025

Anthony Calderone  
Trimble North Town, LLC  
3347 Michelson Drive  
Suite 200  
Irvine, CA 92612

**\*\* DETERMINATION OF NO HAZARD TO AIR NAVIGATION \*\***

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

|            |                                                                                                        |
|------------|--------------------------------------------------------------------------------------------------------|
| Structure: | Commercial Use Building LBA Data Center North                                                          |
| Location:  | San Jose, CA                                                                                           |
| Latitude:  | 37-22-58.94N NAD 83                                                                                    |
| Longitude: | 121-55-56.87W                                                                                          |
| Heights:   | 29 feet site elevation (SE)<br>66 feet above ground level (AGL)<br>95 feet above mean sea level (AMSL) |

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

- ☐ At least 10 days prior to start of construction (7460-2, Part 1)  
☒ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M Change 1.

The structure considered under this study lies in proximity to an airport and occupants may be subjected to noise from aircraft operating to and from the airport.

This determination expires on 09/25/2026 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.

- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

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This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

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This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact Justin Hetland, at (847) 294-8084, or [justin.hetland@faa.gov](mailto:justin.hetland@faa.gov). On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2025-AWP-2201-OE.

**Signature Control No: 648383321-651553953**

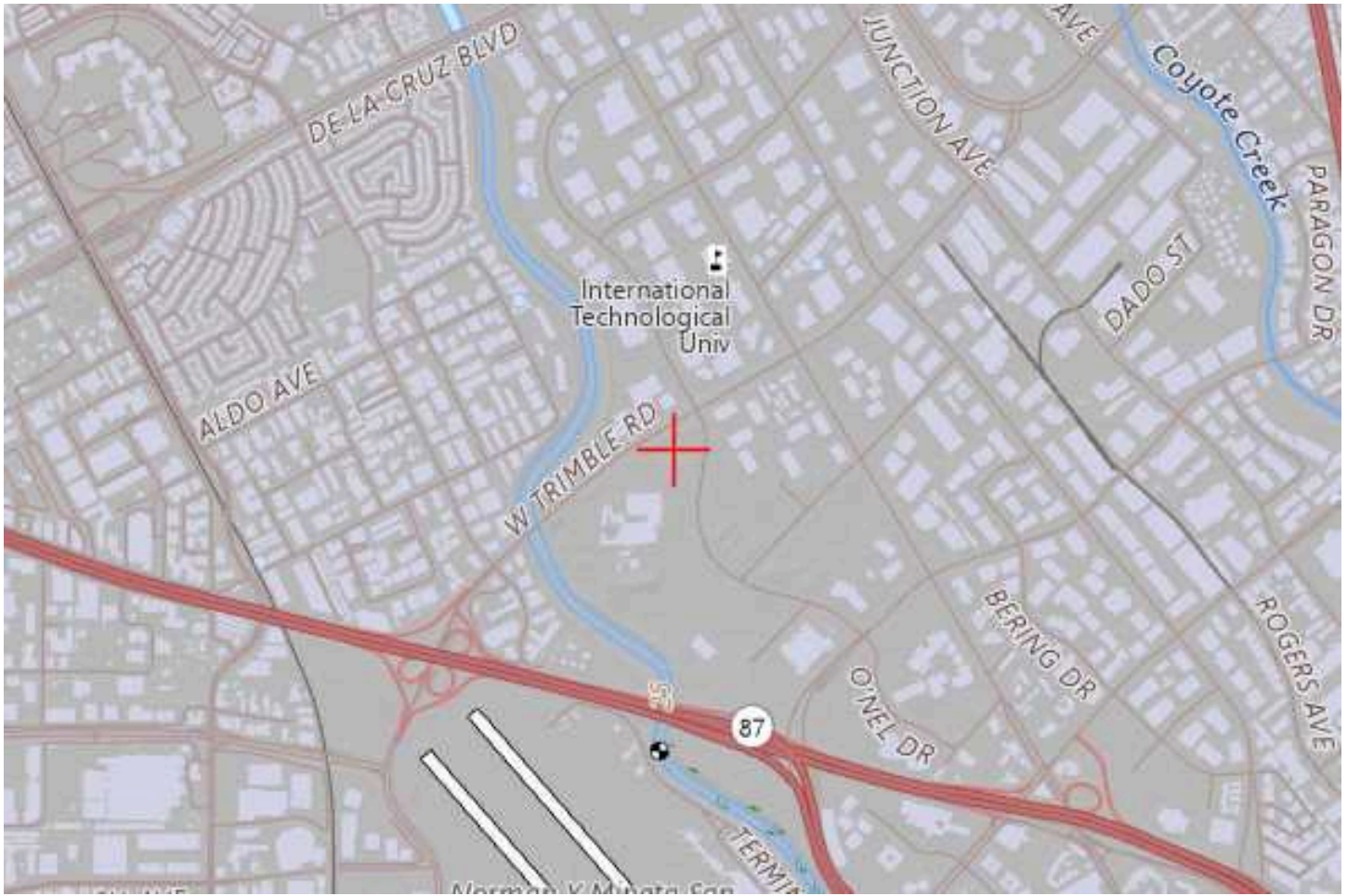
( DNE )

Julie A. Morgan

Manager, Obstruction Evaluation Group

Attachment(s)

Map(s)









Mail Processing Center  
Federal Aviation Administration  
Southwest Regional Office  
Obstruction Evaluation Group  
10101 Hillwood Parkway  
Fort Worth, TX 76177

Aeronautical Study No.  
2025-AWP-2198-OE

Issued Date: 03/25/2025

Anthony Calderone  
Trimble North Town, LLC  
3347 Michelson Drive  
Suite 200  
Irvine, CA 92612

**\*\* DETERMINATION OF NO HAZARD TO AIR NAVIGATION \*\***

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

|            |                                                                                                        |
|------------|--------------------------------------------------------------------------------------------------------|
| Structure: | Commercial Use Building LBA Data Center North                                                          |
| Location:  | San Jose, CA                                                                                           |
| Latitude:  | 37-23-00.02N NAD 83                                                                                    |
| Longitude: | 121-55-57.91W                                                                                          |
| Heights:   | 29 feet site elevation (SE)<br>66 feet above ground level (AGL)<br>95 feet above mean sea level (AMSL) |

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

- ☐ At least 10 days prior to start of construction (7460-2, Part 1)  
☒ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M Change 1.

The structure considered under this study lies in proximity to an airport and occupants may be subjected to noise from aircraft operating to and from the airport.

This determination expires on 09/25/2026 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.

- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

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This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact Justin Hetland, at (847) 294-8084, or [justin.hetland@faa.gov](mailto:justin.hetland@faa.gov). On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2025-AWP-2198-OE.

**Signature Control No: 648383318-651553954**

( DNE )

Julie A. Morgan

Manager, Obstruction Evaluation Group

Attachment(s)

Map(s)











Mail Processing Center  
Federal Aviation Administration  
Southwest Regional Office  
Obstruction Evaluation Group  
10101 Hillwood Parkway  
Fort Worth, TX 76177

Aeronautical Study No.  
2025-AWP-2156-OE

Issued Date: 03/25/2025

Anthony Calderone  
Trimble North Town, LLC  
3347 Michelson Drive  
Suite 200  
Irvine, CA 92612

**\*\* DETERMINATION OF NO HAZARD TO AIR NAVIGATION \*\***

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

|            |                                                                                                        |
|------------|--------------------------------------------------------------------------------------------------------|
| Structure: | Commercial Use Building LBA Data Center West                                                           |
| Location:  | San Jose, CA                                                                                           |
| Latitude:  | 37-22-51.94N NAD 83                                                                                    |
| Longitude: | 121-56-11.13W                                                                                          |
| Heights:   | 30 feet site elevation (SE)<br>66 feet above ground level (AGL)<br>96 feet above mean sea level (AMSL) |

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

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☒ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M Change 1.

The structure considered under this study lies in proximity to an airport and occupants may be subjected to noise from aircraft operating to and from the airport.

This determination expires on 09/25/2026 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
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- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

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This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact Justin Hetland, at (847) 294-8084, or [justin.hetland@faa.gov](mailto:justin.hetland@faa.gov). On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2025-AWP-2156-OE.

**Signature Control No: 648254778-651553955**

( DNE )

Julie A. Morgan

Manager, Obstruction Evaluation Group

Attachment(s)

Map(s)









Mail Processing Center  
Federal Aviation Administration  
Southwest Regional Office  
Obstruction Evaluation Group  
10101 Hillwood Parkway  
Fort Worth, TX 76177

Aeronautical Study No.  
2025-AWP-2193-OE

Issued Date: 03/25/2025

Anthony Calderone  
Trimble North Town, LLC  
3347 Michelson Drive  
Suite 200  
Irvine, CA 92612

**\*\* DETERMINATION OF NO HAZARD TO AIR NAVIGATION \*\***

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

|            |                                                                                                        |
|------------|--------------------------------------------------------------------------------------------------------|
| Structure: | Commercial Use Building LBA Data Center North                                                          |
| Location:  | San Jose, CA                                                                                           |
| Latitude:  | 37-22-58.58N NAD 83                                                                                    |
| Longitude: | 121-56-00.38W                                                                                          |
| Heights:   | 29 feet site elevation (SE)<br>66 feet above ground level (AGL)<br>95 feet above mean sea level (AMSL) |

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

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Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M Change 1.

The structure considered under this study lies in proximity to an airport and occupants may be subjected to noise from aircraft operating to and from the airport.

This determination expires on 09/25/2026 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
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This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact Justin Hetland, at (847) 294-8084, or [justin.hetland@faa.gov](mailto:justin.hetland@faa.gov). On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2025-AWP-2193-OE.

**Signature Control No: 648383313-651553956**

( DNE )

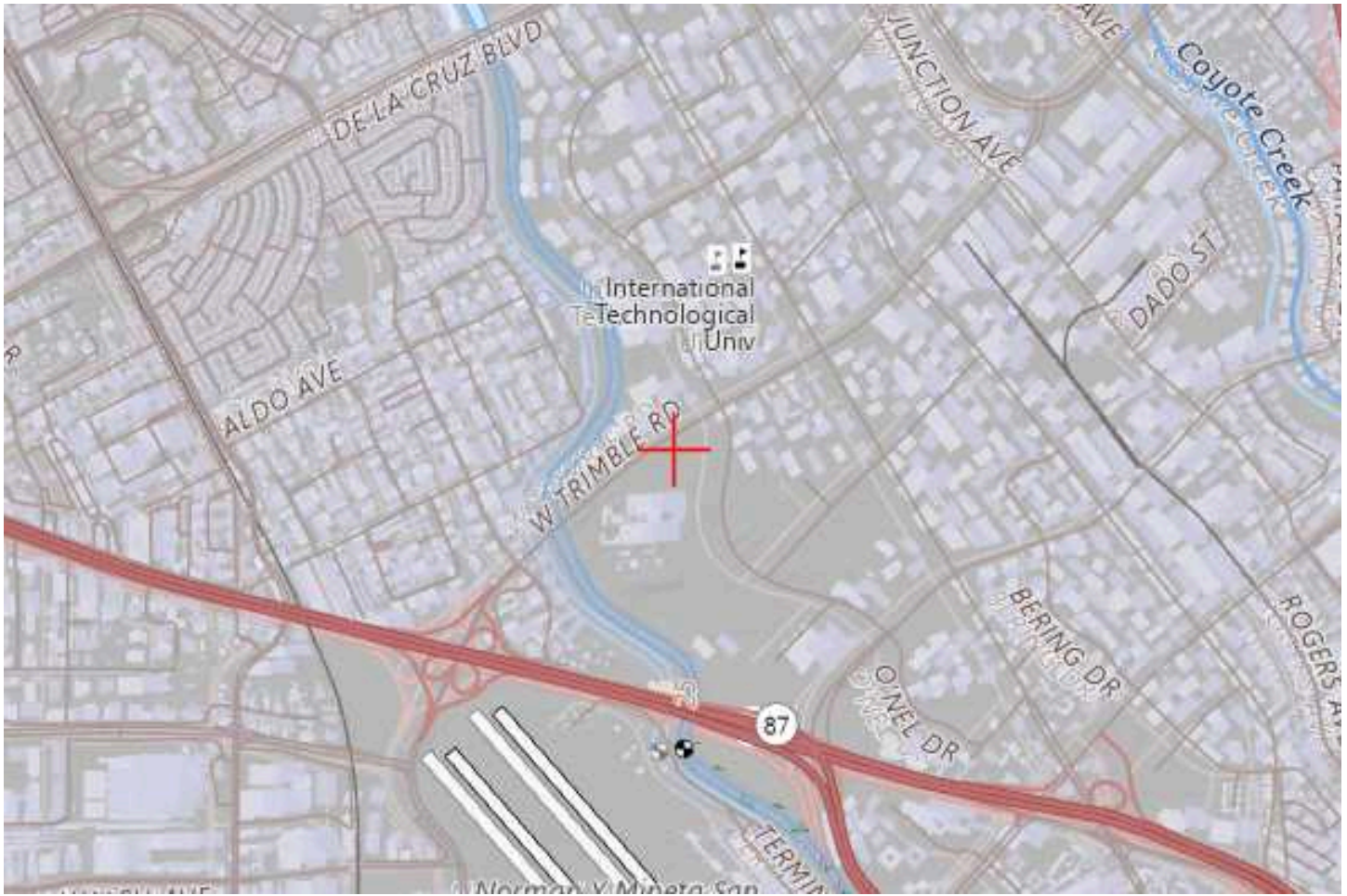
Julie A. Morgan

Manager, Obstruction Evaluation Group

Attachment(s)

Map(s)











Mail Processing Center  
Federal Aviation Administration  
Southwest Regional Office  
Obstruction Evaluation Group  
10101 Hillwood Parkway  
Fort Worth, TX 76177

Aeronautical Study No.  
2025-AWP-2151-OE

Issued Date: 03/25/2025

Anthony Calderone  
Trimble North Town, LLC  
3347 Michelson Drive  
Suite 200  
Irvine, CA 92612

**\*\* DETERMINATION OF NO HAZARD TO AIR NAVIGATION \*\***

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

|            |                                                                                                        |
|------------|--------------------------------------------------------------------------------------------------------|
| Structure: | Commercial Use Building LBA Data Center West                                                           |
| Location:  | San Jose, CA                                                                                           |
| Latitude:  | 37-22-48.13N NAD 83                                                                                    |
| Longitude: | 121-56-10.79W                                                                                          |
| Heights:   | 30 feet site elevation (SE)<br>66 feet above ground level (AGL)<br>96 feet above mean sea level (AMSL) |

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

- ☐ At least 10 days prior to start of construction (7460-2, Part 1)  
☒ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M Change 1.

The structure considered under this study lies in proximity to an airport and occupants may be subjected to noise from aircraft operating to and from the airport.

This determination expires on 09/25/2026 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.

- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

**NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.**

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact Justin Hetland, at (847) 294-8084, or [justin.hetland@faa.gov](mailto:justin.hetland@faa.gov). On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2025-AWP-2151-OE.

**Signature Control No: 648254773-651553957**

( DNE )

Julie A. Morgan

Manager, Obstruction Evaluation Group

Attachment(s)

Map(s)









Mail Processing Center  
Federal Aviation Administration  
Southwest Regional Office  
Obstruction Evaluation Group  
10101 Hillwood Parkway  
Fort Worth, TX 76177

Aeronautical Study No.  
2025-AWP-2197-OE

Issued Date: 03/25/2025

Anthony Calderone  
Trimble North Town, LLC  
3347 Michelson Drive  
Suite 200  
Irvine, CA 92612

**\*\* DETERMINATION OF NO HAZARD TO AIR NAVIGATION \*\***

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

|            |                                                                                                        |
|------------|--------------------------------------------------------------------------------------------------------|
| Structure: | Commercial Use Building LBA Data Center North                                                          |
| Location:  | San Jose, CA                                                                                           |
| Latitude:  | 37-23-00.20N NAD 83                                                                                    |
| Longitude: | 121-55-58.08W                                                                                          |
| Heights:   | 29 feet site elevation (SE)<br>66 feet above ground level (AGL)<br>95 feet above mean sea level (AMSL) |

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

- ☐ At least 10 days prior to start of construction (7460-2, Part 1)  
☒ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M Change 1.

The structure considered under this study lies in proximity to an airport and occupants may be subjected to noise from aircraft operating to and from the airport.

This determination expires on 09/25/2026 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.

- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

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This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact Justin Hetland, at (847) 294-8084, or [justin.hetland@faa.gov](mailto:justin.hetland@faa.gov). On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2025-AWP-2197-OE.

**Signature Control No: 648383317-651553958**

( DNE )

Julie A. Morgan

Manager, Obstruction Evaluation Group

Attachment(s)

Map(s)











Mail Processing Center  
Federal Aviation Administration  
Southwest Regional Office  
Obstruction Evaluation Group  
10101 Hillwood Parkway  
Fort Worth, TX 76177

Aeronautical Study No.  
2025-AWP-2158-OE

Issued Date: 03/25/2025

Anthony Calderone  
Trimble North Town, LLC  
3347 Michelson Drive  
Suite 200  
Irvine, CA 92612

**\*\* DETERMINATION OF NO HAZARD TO AIR NAVIGATION \*\***

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

|            |                                                                                                        |
|------------|--------------------------------------------------------------------------------------------------------|
| Structure: | Commercial Use Building LBA Data Center West                                                           |
| Location:  | San Jose, CA                                                                                           |
| Latitude:  | 37-22-46.97N NAD 83                                                                                    |
| Longitude: | 121-56-08.62W                                                                                          |
| Heights:   | 30 feet site elevation (SE)<br>66 feet above ground level (AGL)<br>96 feet above mean sea level (AMSL) |

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

- ☐ At least 10 days prior to start of construction (7460-2, Part 1)  
☒ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M Change 1.

The structure considered under this study lies in proximity to an airport and occupants may be subjected to noise from aircraft operating to and from the airport.

This determination expires on 09/25/2026 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.

- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

**NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.**

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

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This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact Justin Hetland, at (847) 294-8084, or [justin.hetland@faa.gov](mailto:justin.hetland@faa.gov). On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2025-AWP-2158-OE.

**Signature Control No: 648254781-651553959**

( DNE )

Julie A. Morgan

Manager, Obstruction Evaluation Group

Attachment(s)

Map(s)









Mail Processing Center  
Federal Aviation Administration  
Southwest Regional Office  
Obstruction Evaluation Group  
10101 Hillwood Parkway  
Fort Worth, TX 76177

Aeronautical Study No.  
2025-AWP-2194-OE

Issued Date: 03/25/2025

Anthony Calderone  
Trimble North Town, LLC  
3347 Michelson Drive  
Suite 200  
Irvine, CA 92612

**\*\* DETERMINATION OF NO HAZARD TO AIR NAVIGATION \*\***

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

|            |                                                                                                        |
|------------|--------------------------------------------------------------------------------------------------------|
| Structure: | Commercial Use Building LBA Data Center North                                                          |
| Location:  | San Jose, CA                                                                                           |
| Latitude:  | 37-22-58.91N NAD 83                                                                                    |
| Longitude: | 121-56-00.59W                                                                                          |
| Heights:   | 29 feet site elevation (SE)<br>66 feet above ground level (AGL)<br>95 feet above mean sea level (AMSL) |

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

- ☐ At least 10 days prior to start of construction (7460-2, Part 1)  
☒ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M Change 1.

The structure considered under this study lies in proximity to an airport and occupants may be subjected to noise from aircraft operating to and from the airport.

This determination expires on 09/25/2026 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.

- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

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If we can be of further assistance, please contact Justin Hetland, at (847) 294-8084, or [justin.hetland@faa.gov](mailto:justin.hetland@faa.gov). On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2025-AWP-2194-OE.

**Signature Control No: 648383314-651553960**

( DNE )

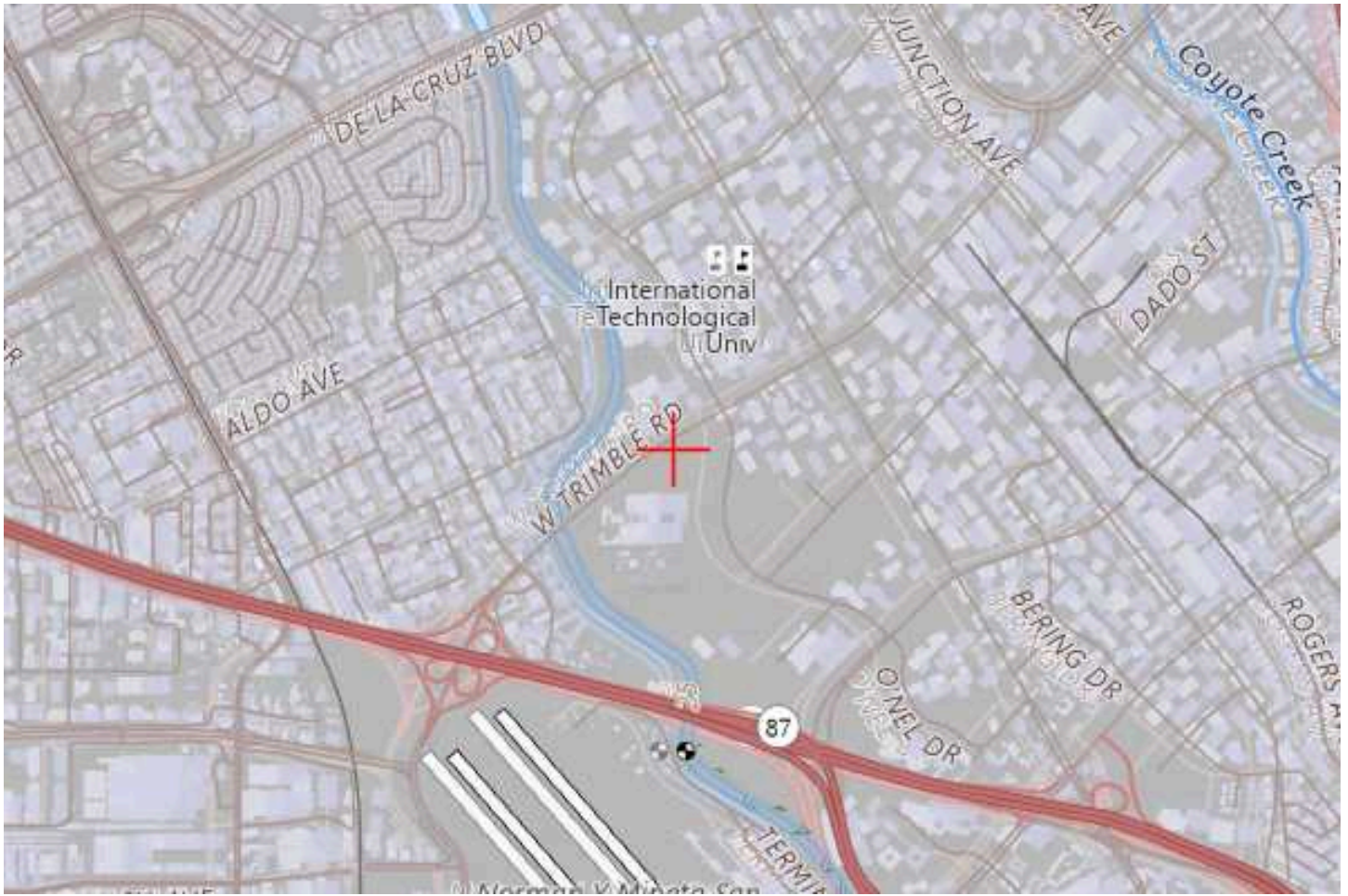
Julie A. Morgan

Manager, Obstruction Evaluation Group

Attachment(s)

Map(s)











Mail Processing Center  
Federal Aviation Administration  
Southwest Regional Office  
Obstruction Evaluation Group  
10101 Hillwood Parkway  
Fort Worth, TX 76177

Aeronautical Study No.  
2025-AWP-2154-OE

Issued Date: 03/25/2025

Anthony Calderone  
Trimble North Town, LLC  
3347 Michelson Drive  
Suite 200  
Irvine, CA 92612

**\*\* DETERMINATION OF NO HAZARD TO AIR NAVIGATION \*\***

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

|            |                                                                                                        |
|------------|--------------------------------------------------------------------------------------------------------|
| Structure: | Commercial Use Building LBA Data Center West                                                           |
| Location:  | San Jose, CA                                                                                           |
| Latitude:  | 37-22-51.02N NAD 83                                                                                    |
| Longitude: | 121-56-11.66W                                                                                          |
| Heights:   | 30 feet site elevation (SE)<br>66 feet above ground level (AGL)<br>96 feet above mean sea level (AMSL) |

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

- ☐ At least 10 days prior to start of construction (7460-2, Part 1)  
☒ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M Change 1.

The structure considered under this study lies in proximity to an airport and occupants may be subjected to noise from aircraft operating to and from the airport.

This determination expires on 09/25/2026 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.

- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

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This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

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This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact Justin Hetland, at (847) 294-8084, or [justin.hetland@faa.gov](mailto:justin.hetland@faa.gov). On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2025-AWP-2154-OE.

**Signature Control No: 648254776-651553961**

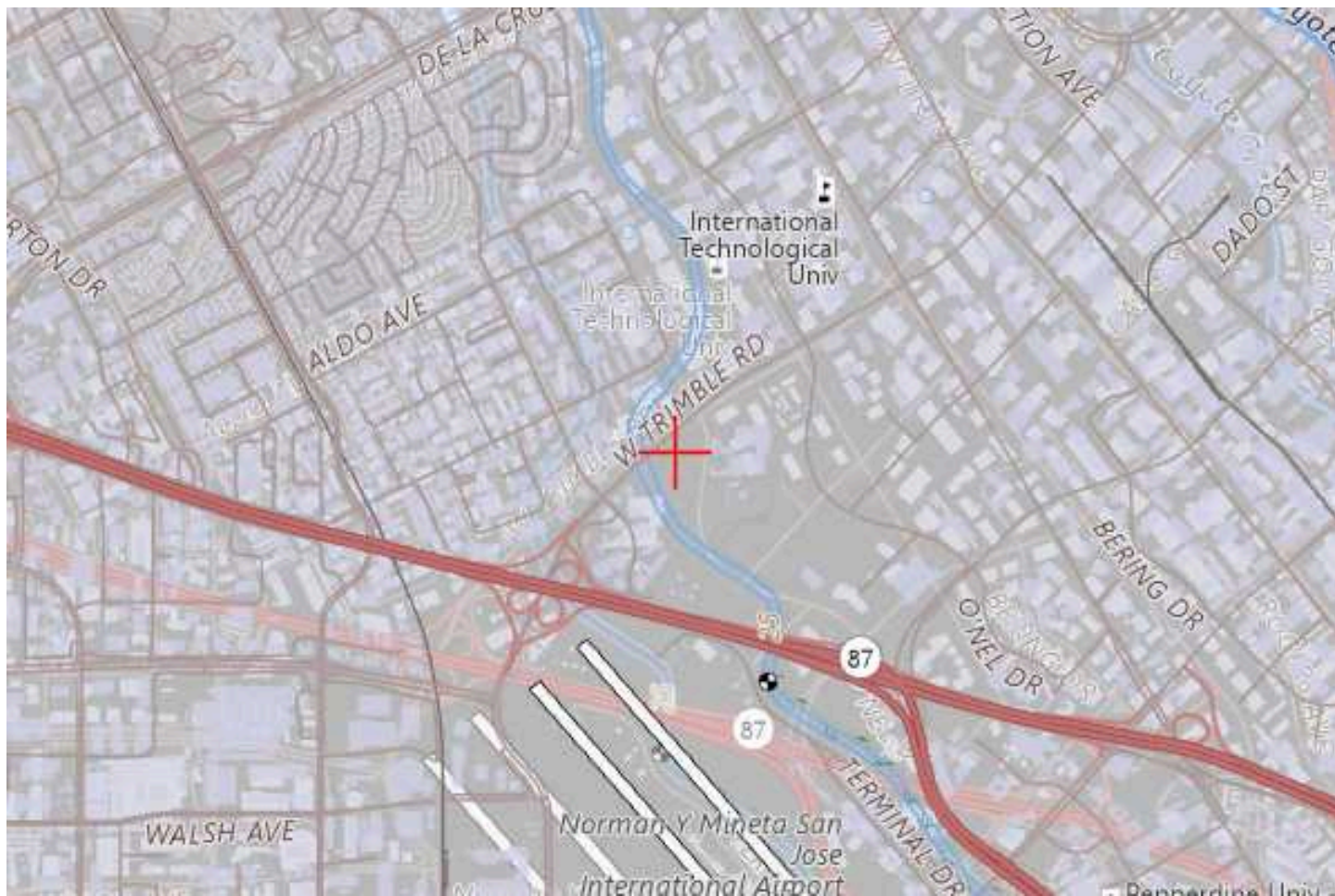
( DNE )

Julie A. Morgan

Manager, Obstruction Evaluation Group

Attachment(s)

Map(s)









Mail Processing Center  
Federal Aviation Administration  
Southwest Regional Office  
Obstruction Evaluation Group  
10101 Hillwood Parkway  
Fort Worth, TX 76177

Aeronautical Study No.  
2025-AWP-2199-OE

Issued Date: 03/25/2025

Anthony Calderone  
Trimble North Town, LLC  
3347 Michelson Drive  
Suite 200  
Irvine, CA 92612

**\*\* DETERMINATION OF NO HAZARD TO AIR NAVIGATION \*\***

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

|            |                                                                                                        |
|------------|--------------------------------------------------------------------------------------------------------|
| Structure: | Commercial Use Building LBA Data Center North                                                          |
| Location:  | San Jose, CA                                                                                           |
| Latitude:  | 37-23-00.36N NAD 83                                                                                    |
| Longitude: | 121-55-57.08W                                                                                          |
| Heights:   | 29 feet site elevation (SE)<br>66 feet above ground level (AGL)<br>95 feet above mean sea level (AMSL) |

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

- ☐ At least 10 days prior to start of construction (7460-2, Part 1)  
☒ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M Change 1.

The structure considered under this study lies in proximity to an airport and occupants may be subjected to noise from aircraft operating to and from the airport.

This determination expires on 09/25/2026 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.

- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact Justin Hetland, at (847) 294-8084, or [justin.hetland@faa.gov](mailto:justin.hetland@faa.gov). On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2025-AWP-2199-OE.

**Signature Control No: 648383319-651553962**

( DNE )

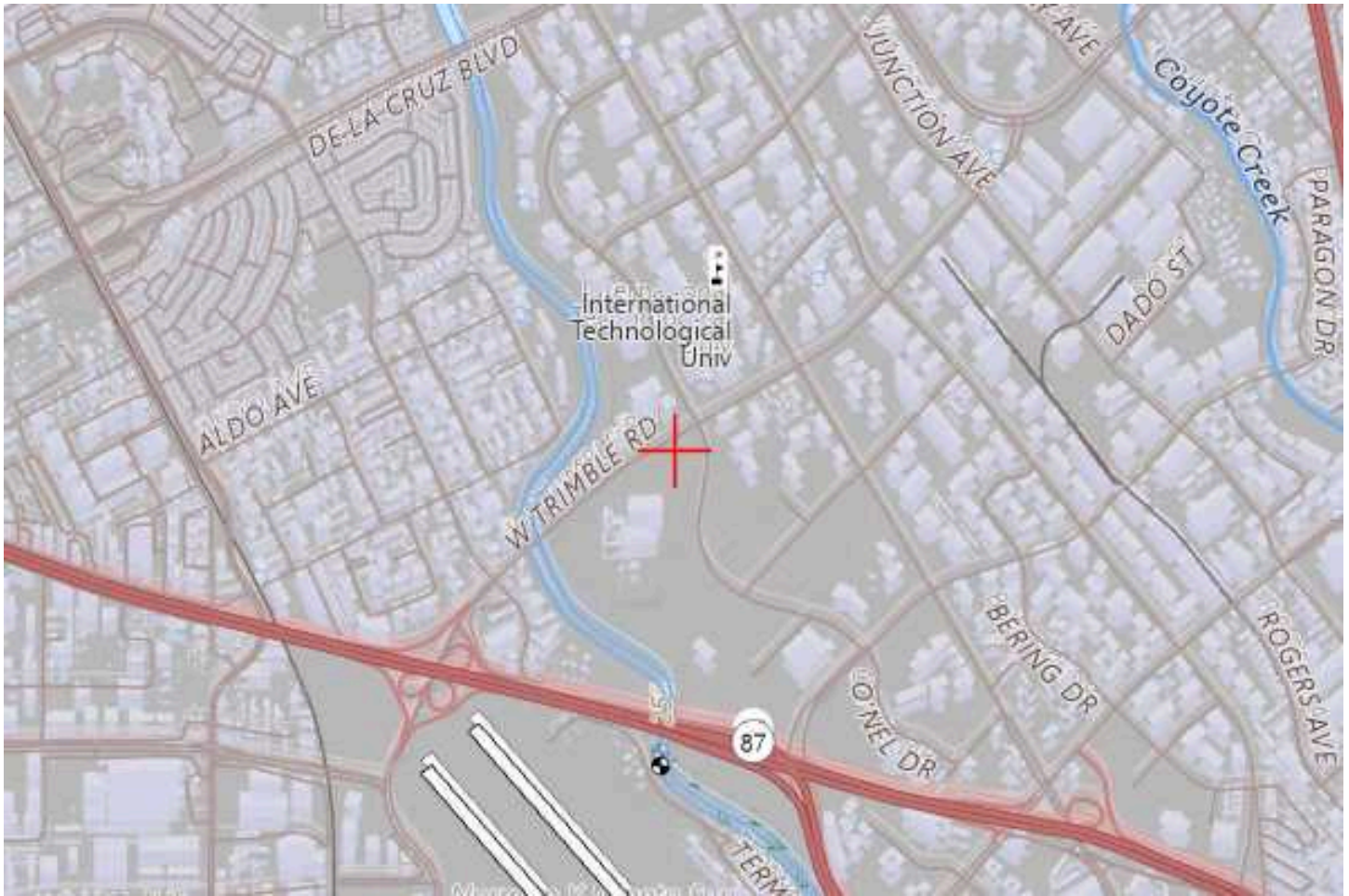
Julie A. Morgan

Manager, Obstruction Evaluation Group

Attachment(s)

Map(s)











Mail Processing Center  
Federal Aviation Administration  
Southwest Regional Office  
Obstruction Evaluation Group  
10101 Hillwood Parkway  
Fort Worth, TX 76177

Aeronautical Study No.  
2025-AWP-2203-OE

Issued Date: 03/25/2025

Anthony Calderone  
Trimble North Town, LLC  
3347 Michelson Drive  
Suite 200  
Irvine, CA 92612

**\*\* DETERMINATION OF NO HAZARD TO AIR NAVIGATION \*\***

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

|            |                                                                                                         |
|------------|---------------------------------------------------------------------------------------------------------|
| Structure: | Commercial Use Building LBA Data Center North                                                           |
| Location:  | San Jose, CA                                                                                            |
| Latitude:  | 37-22-57.82N NAD 83                                                                                     |
| Longitude: | 121-56-01.65W                                                                                           |
| Heights:   | 29 feet site elevation (SE)<br>81 feet above ground level (AGL)<br>110 feet above mean sea level (AMSL) |

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

- ☐ At least 10 days prior to start of construction (7460-2, Part 1)  
☒ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M Change 1.

The structure considered under this study lies in proximity to an airport and occupants may be subjected to noise from aircraft operating to and from the airport.

This determination expires on 09/25/2026 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.

- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

**NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.**

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact Justin Hetland, at (847) 294-8084, or [justin.hetland@faa.gov](mailto:justin.hetland@faa.gov). On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2025-AWP-2203-OE.

**Signature Control No: 648383323-651554168**

( DNE )

Julie A. Morgan

Manager, Obstruction Evaluation Group

Attachment(s)

Map(s)









Mail Processing Center  
Federal Aviation Administration  
Southwest Regional Office  
Obstruction Evaluation Group  
10101 Hillwood Parkway  
Fort Worth, TX 76177

Aeronautical Study No.  
2025-AWP-2205-OE

Issued Date: 03/25/2025

Anthony Calderone  
Trimble North Town, LLC  
3347 Michelson Drive  
Suite 200  
Irvine, CA 92612

**\*\* DETERMINATION OF NO HAZARD TO AIR NAVIGATION \*\***

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

|            |                                                                                                         |
|------------|---------------------------------------------------------------------------------------------------------|
| Structure: | Commercial Use Building LBA Data Center North                                                           |
| Location:  | San Jose, CA                                                                                            |
| Latitude:  | 37-22-59.07N NAD 83                                                                                     |
| Longitude: | 121-55-58.64W                                                                                           |
| Heights:   | 29 feet site elevation (SE)<br>82 feet above ground level (AGL)<br>111 feet above mean sea level (AMSL) |

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

- ☐ At least 10 days prior to start of construction (7460-2, Part 1)  
☒ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M Change 1.

The structure considered under this study lies in proximity to an airport and occupants may be subjected to noise from aircraft operating to and from the airport.

This determination expires on 09/25/2026 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.

- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

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This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact Justin Hetland, at (847) 294-8084, or [justin.hetland@faa.gov](mailto:justin.hetland@faa.gov). On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2025-AWP-2205-OE.

**Signature Control No: 648383325-651554169**

( DNE )

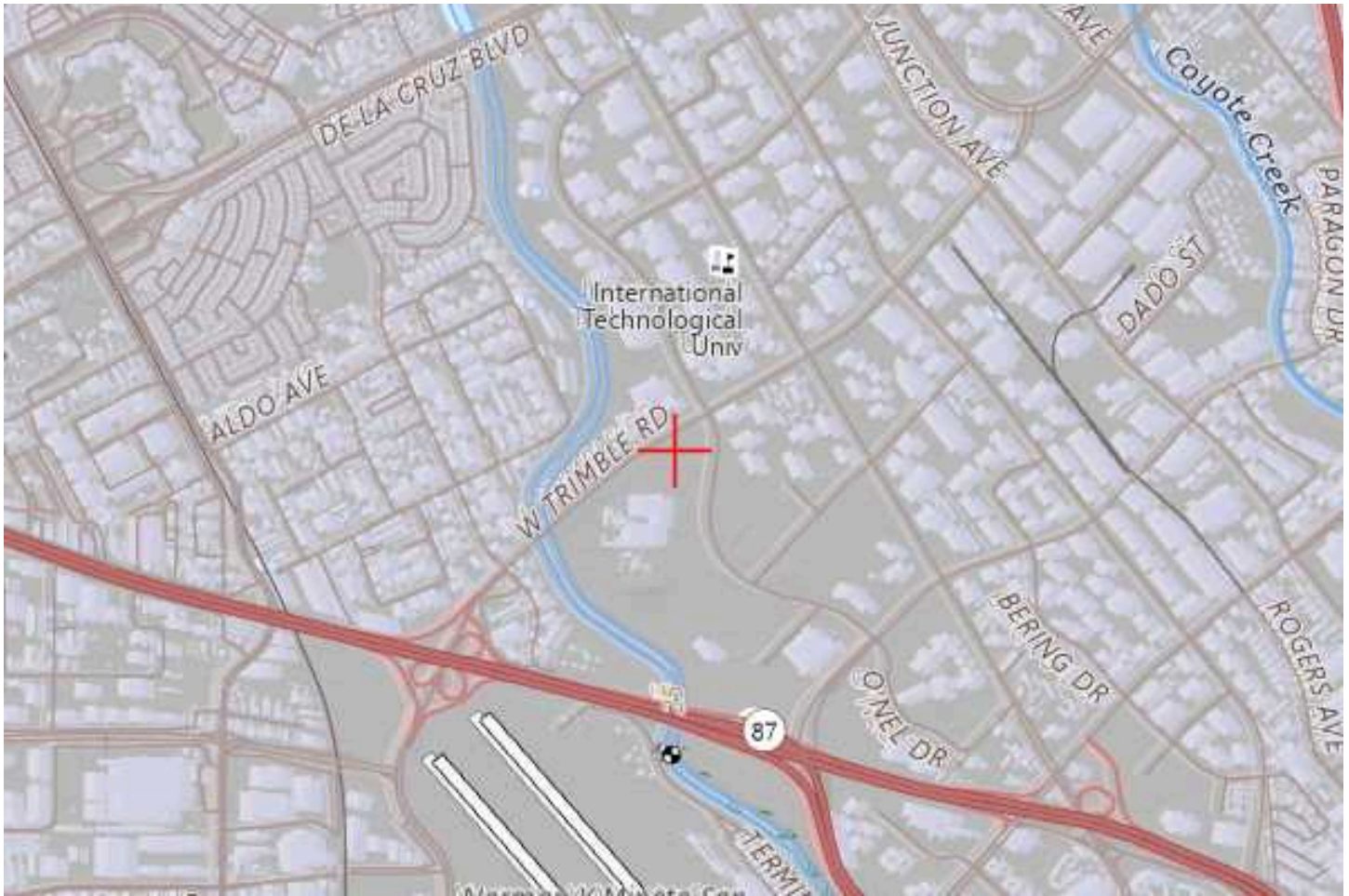
Julie A. Morgan

Manager, Obstruction Evaluation Group

Attachment(s)

Map(s)











Mail Processing Center  
Federal Aviation Administration  
Southwest Regional Office  
Obstruction Evaluation Group  
10101 Hillwood Parkway  
Fort Worth, TX 76177

Aeronautical Study No.  
2025-AWP-2204-OE

Issued Date: 03/25/2025

Anthony Calderone  
Trimble North Town, LLC  
3347 Michelson Drive  
Suite 200  
Irvine, CA 92612

**\*\* DETERMINATION OF NO HAZARD TO AIR NAVIGATION \*\***

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

|            |                                                                                                         |
|------------|---------------------------------------------------------------------------------------------------------|
| Structure: | Commercial Use Building LBA Data Center North                                                           |
| Location:  | San Jose, CA                                                                                            |
| Latitude:  | 37-22-56.57N NAD 83                                                                                     |
| Longitude: | 121-56-00.84W                                                                                           |
| Heights:   | 29 feet site elevation (SE)<br>82 feet above ground level (AGL)<br>111 feet above mean sea level (AMSL) |

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

- ☐ At least 10 days prior to start of construction (7460-2, Part 1)  
☒ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M Change 1.

The structure considered under this study lies in proximity to an airport and occupants may be subjected to noise from aircraft operating to and from the airport.

This determination expires on 09/25/2026 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.

- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

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This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact Justin Hetland, at (847) 294-8084, or [justin.hetland@faa.gov](mailto:justin.hetland@faa.gov). On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2025-AWP-2204-OE.

**Signature Control No: 648383324-651554170**

( DNE )

Julie A. Morgan

Manager, Obstruction Evaluation Group

Attachment(s)

Map(s)









Mail Processing Center  
Federal Aviation Administration  
Southwest Regional Office  
Obstruction Evaluation Group  
10101 Hillwood Parkway  
Fort Worth, TX 76177

Aeronautical Study No.  
2025-AWP-2206-OE

Issued Date: 03/25/2025

Anthony Calderone  
Trimble North Town, LLC  
3347 Michelson Drive  
Suite 200  
Irvine, CA 92612

**\*\* DETERMINATION OF NO HAZARD TO AIR NAVIGATION \*\***

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

|            |                                                                                                         |
|------------|---------------------------------------------------------------------------------------------------------|
| Structure: | Commercial Use Building LBA Data Center North                                                           |
| Location:  | San Jose, CA                                                                                            |
| Latitude:  | 37-22-57.83N NAD 83                                                                                     |
| Longitude: | 121-55-57.82W                                                                                           |
| Heights:   | 29 feet site elevation (SE)<br>82 feet above ground level (AGL)<br>111 feet above mean sea level (AMSL) |

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

- ☐ At least 10 days prior to start of construction (7460-2, Part 1)  
☒ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M Change 1.

The structure considered under this study lies in proximity to an airport and occupants may be subjected to noise from aircraft operating to and from the airport.

This determination expires on 09/25/2026 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.

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If we can be of further assistance, please contact Justin Hetland, at (847) 294-8084, or [justin.hetland@faa.gov](mailto:justin.hetland@faa.gov). On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2025-AWP-2206-OE.

**Signature Control No: 648383326-651554171**

( DNE )

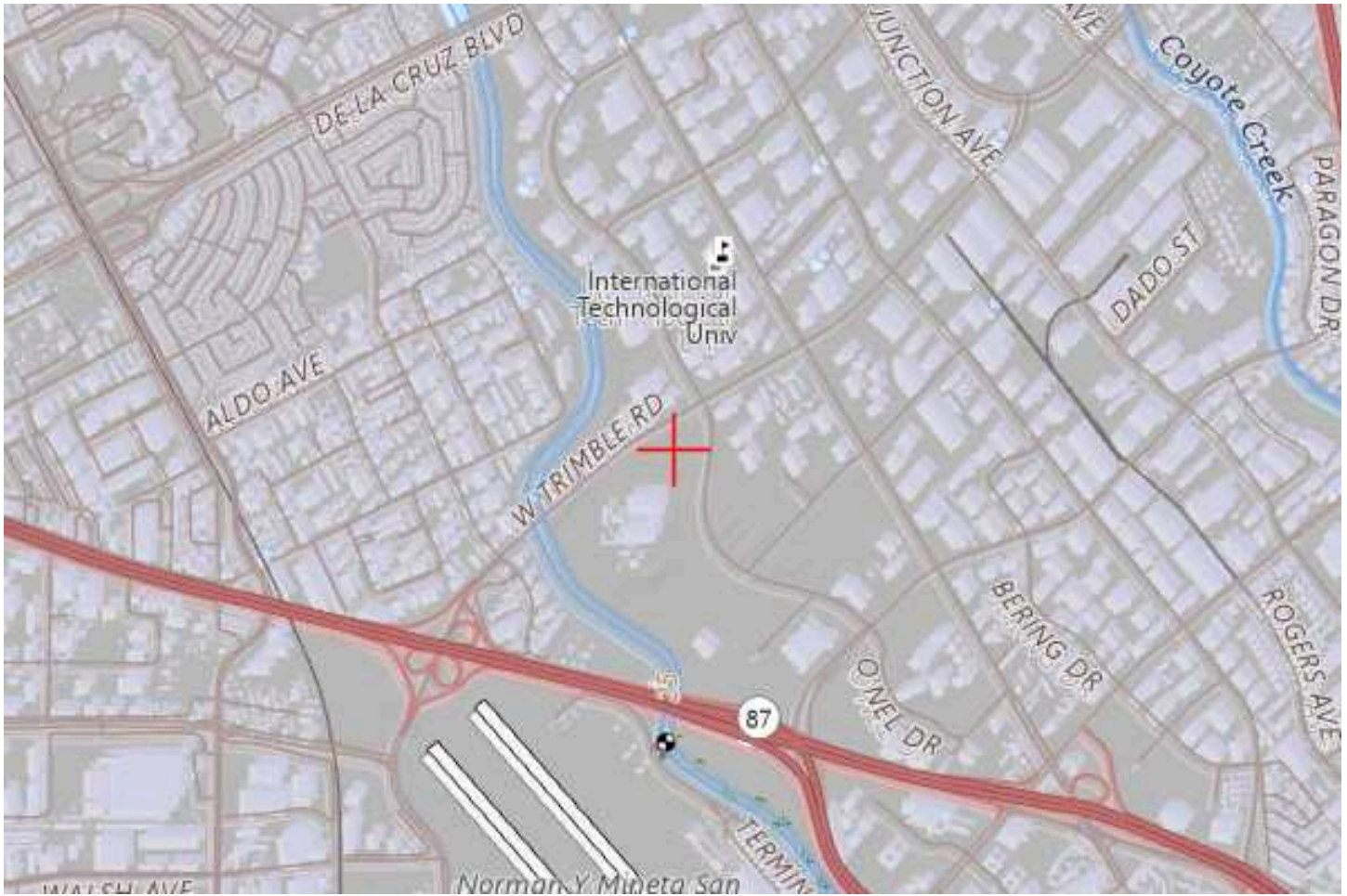
Julie A. Morgan

Manager, Obstruction Evaluation Group

Attachment(s)

Map(s)











Mail Processing Center  
Federal Aviation Administration  
Southwest Regional Office  
Obstruction Evaluation Group  
10101 Hillwood Parkway  
Fort Worth, TX 76177

Aeronautical Study No.  
2025-AWP-2209-OE

Issued Date: 03/25/2025

Anthony Calderone  
Trimble North Town, LLC  
3347 Michelson Drive  
Suite 200  
Irvine, CA 92612

**\*\* DETERMINATION OF NO HAZARD TO AIR NAVIGATION \*\***

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

|            |                                                                                                         |
|------------|---------------------------------------------------------------------------------------------------------|
| Structure: | Commercial Use Building LBA Data Center West                                                            |
| Location:  | San Jose, CA                                                                                            |
| Latitude:  | 37-22-48.15N NAD 83                                                                                     |
| Longitude: | 121-56-08.76W                                                                                           |
| Heights:   | 30 feet site elevation (SE)<br>82 feet above ground level (AGL)<br>112 feet above mean sea level (AMSL) |

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

- ☐ At least 10 days prior to start of construction (7460-2, Part 1)  
☒ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M Change 1.

The structure considered under this study lies in proximity to an airport and occupants may be subjected to noise from aircraft operating to and from the airport.

This determination expires on 09/25/2026 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.

- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

**NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.**

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

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This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact Justin Hetland, at (847) 294-8084, or [justin.hetland@faa.gov](mailto:justin.hetland@faa.gov). On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2025-AWP-2209-OE.

**Signature Control No: 648384728-651554172**

( DNE )

Julie A. Morgan

Manager, Obstruction Evaluation Group

Attachment(s)

Map(s)











Mail Processing Center  
Federal Aviation Administration  
Southwest Regional Office  
Obstruction Evaluation Group  
10101 Hillwood Parkway  
Fort Worth, TX 76177

Aeronautical Study No.  
2025-AWP-2360-OE

Issued Date: 03/25/2025

Anthony Calderone  
Trimble North Town, LLC  
3347 Michelson Drive  
Suite 200  
Irvine, CA 92612

**\*\* DETERMINATION OF NO HAZARD TO AIR NAVIGATION \*\***

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

|            |                                                                                                        |
|------------|--------------------------------------------------------------------------------------------------------|
| Structure: | Commercial Use Building LBA Data Center West                                                           |
| Location:  | San Jose, CA                                                                                           |
| Latitude:  | 37-22-46.85N NAD 83                                                                                    |
| Longitude: | 121-56-10.67W                                                                                          |
| Heights:   | 30 feet site elevation (SE)<br>66 feet above ground level (AGL)<br>96 feet above mean sea level (AMSL) |

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

- ☐ At least 10 days prior to start of construction (7460-2, Part 1)  
☒ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M Change 1.

The structure considered under this study lies in proximity to an airport and occupants may be subjected to noise from aircraft operating to and from the airport.

This determination expires on 09/25/2026 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.

- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

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This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact Justin Hetland, at (847) 294-8084, or [justin.hetland@faa.gov](mailto:justin.hetland@faa.gov). On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2025-AWP-2360-OE.

**Signature Control No: 648961390-651554196**

( DNE )

Julie A. Morgan

Manager, Obstruction Evaluation Group

Attachment(s)

Map(s)











Mail Processing Center  
Federal Aviation Administration  
Southwest Regional Office  
Obstruction Evaluation Group  
10101 Hillwood Parkway  
Fort Worth, TX 76177

Aeronautical Study No.  
2025-AWP-2361-OE

Issued Date: 03/25/2025

Anthony Calderone  
Trimble North Town, LLC  
3347 Michelson Drive  
Suite 200  
Irvine, CA 92612

**\*\* DETERMINATION OF NO HAZARD TO AIR NAVIGATION \*\***

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

|            |                                                                                                         |
|------------|---------------------------------------------------------------------------------------------------------|
| Structure: | Commercial Use Building LBA Data Center West                                                            |
| Location:  | San Jose, CA                                                                                            |
| Latitude:  | 37-22-48.05N NAD 83                                                                                     |
| Longitude: | 121-56-10.52W                                                                                           |
| Heights:   | 30 feet site elevation (SE)<br>82 feet above ground level (AGL)<br>112 feet above mean sea level (AMSL) |

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

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If we can be of further assistance, please contact Justin Hetland, at (847) 294-8084, or [justin.hetland@faa.gov](mailto:justin.hetland@faa.gov). On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2025-AWP-2361-OE.

**Signature Control No: 648962609-651554202**

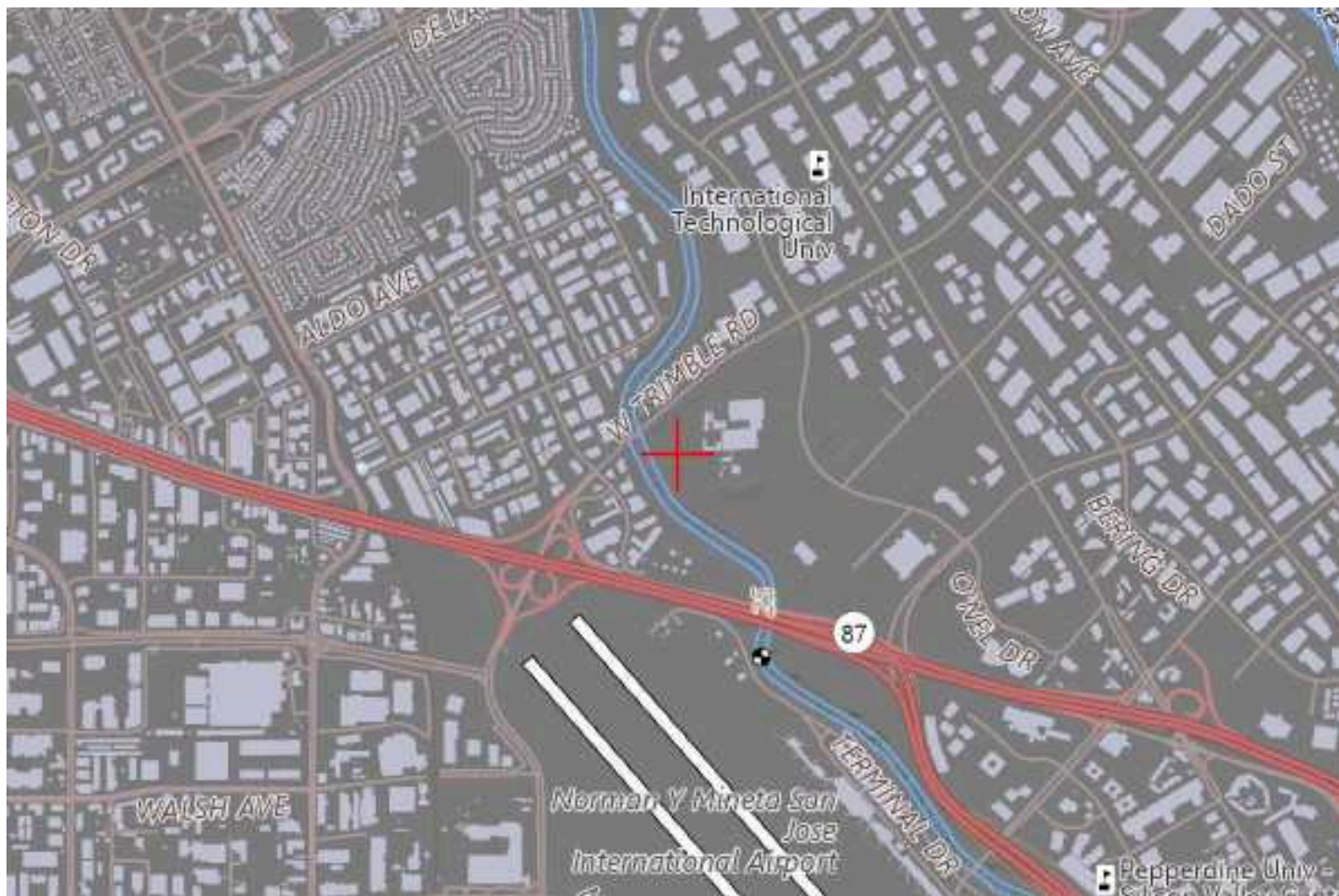
( DNE )

Julie A. Morgan

Manager, Obstruction Evaluation Group

Attachment(s)

Map(s)









Mail Processing Center  
Federal Aviation Administration  
Southwest Regional Office  
Obstruction Evaluation Group  
10101 Hillwood Parkway  
Fort Worth, TX 76177

Aeronautical Study No.  
2025-AWP-2362-OE

Issued Date: 03/25/2025

Anthony Calderone  
Trimble North Town, LLC  
3347 Michelson Drive  
Suite 200  
Irvine, CA 92612

**\*\* DETERMINATION OF NO HAZARD TO AIR NAVIGATION \*\***

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

|            |                                                                                                         |
|------------|---------------------------------------------------------------------------------------------------------|
| Structure: | Commercial Use Building LBA Data Center West                                                            |
| Location:  | San Jose, CA                                                                                            |
| Latitude:  | 37-22-50.77N NAD 83                                                                                     |
| Longitude: | 121-56-10.77W                                                                                           |
| Heights:   | 30 feet site elevation (SE)<br>82 feet above ground level (AGL)<br>112 feet above mean sea level (AMSL) |

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

- ☐ At least 10 days prior to start of construction (7460-2, Part 1)  
☒ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M Change 1.

The structure considered under this study lies in proximity to an airport and occupants may be subjected to noise from aircraft operating to and from the airport.

This determination expires on 09/25/2026 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.



- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

**NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.**

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact Justin Hetland, at (847) 294-8084, or [justin.hetland@faa.gov](mailto:justin.hetland@faa.gov). On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2025-AWP-2362-OE.

**Signature Control No: 648962611-651554204**

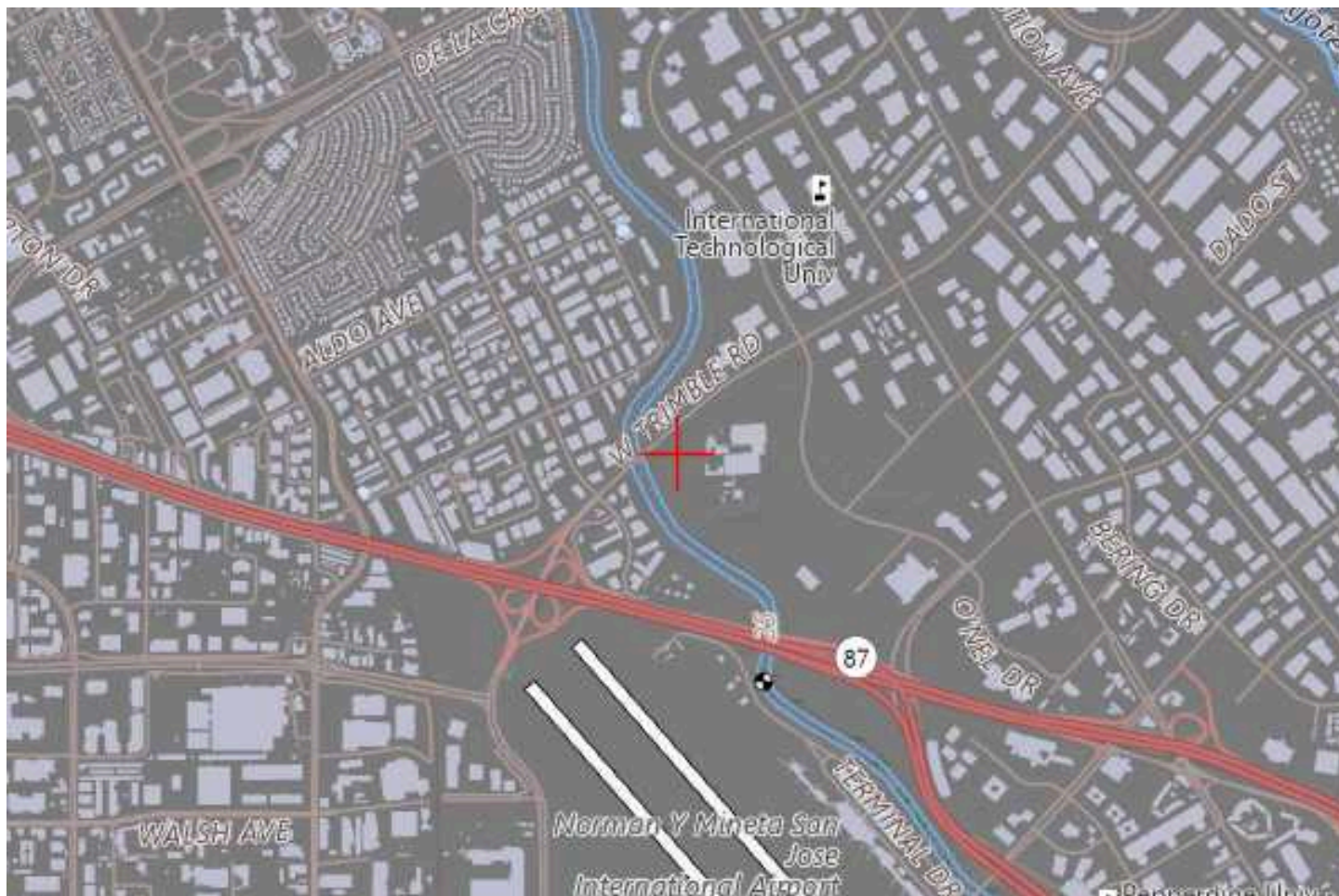
( DNE )

Julie A. Morgan

Manager, Obstruction Evaluation Group

Attachment(s)

Map(s)









Mail Processing Center  
Federal Aviation Administration  
Southwest Regional Office  
Obstruction Evaluation Group  
10101 Hillwood Parkway  
Fort Worth, TX 76177

Aeronautical Study No.  
2025-AWP-2363-OE

Issued Date: 03/25/2025

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|            |                                                                                                         |
|------------|---------------------------------------------------------------------------------------------------------|
| Structure: | Commercial Use Building LBA Data Center West                                                            |
| Location:  | San Jose, CA                                                                                            |
| Latitude:  | 37-22-50.88N NAD 83                                                                                     |
| Longitude: | 121-56-09.01W                                                                                           |
| Heights:   | 30 feet site elevation (SE)<br>82 feet above ground level (AGL)<br>112 feet above mean sea level (AMSL) |

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**Signature Control No: 648962613-651554205**

( DNE )

Julie A. Morgan

Manager, Obstruction Evaluation Group

Attachment(s)

Map(s)











Mail Processing Center  
Federal Aviation Administration  
Southwest Regional Office  
Obstruction Evaluation Group  
10101 Hillwood Parkway  
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Aeronautical Study No.  
2025-AWP-2364-OE

Issued Date: 03/25/2025

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Trimble North Town, LLC  
3347 Michelson Drive  
Suite 200  
Irvine, CA 92612

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|            |                                                                                                         |
|------------|---------------------------------------------------------------------------------------------------------|
| Structure: | Commercial Use Building LBA Data Center West                                                            |
| Location:  | San Jose, CA                                                                                            |
| Latitude:  | 37-22-48.15N NAD 83                                                                                     |
| Longitude: | 121-56-08.76W                                                                                           |
| Heights:   | 30 feet site elevation (SE)<br>82 feet above ground level (AGL)<br>112 feet above mean sea level (AMSL) |

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**Signature Control No: 648962615-651554206**

( DNE )

Julie A. Morgan

Manager, Obstruction Evaluation Group

Attachment(s)

Map(s)





