

2023-2024 VAPOR INTRUSION MITIGATION STATUS REPORT

Pacific Foods Systems, Inc. North Building 5185 Fourth Avenue South Seattle, Washington

5900 1st Avenue South Seattle, Washington

Agreed Order No. DE10402

June 2, 2025

Prepared for

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2023-2024 Vapor Intrusion Mitigation Status Report Pacific Foods System, Inc and 5900 1st Avenue South Seattle, Washington

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LIST OF ABBREVIATIONS AND ACRONYMS

μg/m³	micrograms per cubic meter
Agreed Order	Agreed Order No. DE 5348
Capital	Capital Industries, Inc.
cDCE	Cis-1,2-dichloroethene
CEF	cancer exceedance factors
Ecology	
Farallon	Farallon Consulting, LLC
HVOC	halogenated volatile organic compound
IOW	inches of water
Landau	Landau Associates, Inc.
MTCA	Model Toxics Control Act
NCEF	non-cancer exceedance factor
PCE	tetrachloroethene
PFE	pressure field extension
PFS-N	Pacific Food Systems, Inc. North Building
PSC	Philip Services Corporation
PSCAA	Puget Sound Clean Air Agency
Site	Capital property
SSDS	sub-slab depressurization system
TCE	trichloroethene
VI	vapor intrusion
VIAMM	Vapor Intrusion Assessment, Monitoring, and Mitigation
VIIMM	Vapor Intrusion, Inspection, Monitoring, and Maintenance

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1.0 INTRODUCTION

Landau Associates, Inc. (Landau) has prepared this 2023-2024 Vapor Intrusion Mitigation Status Report on behalf of Capital Industries, Inc. (Capital) to provide an update on vapor intrusion (VI) mitigation measures managed by Capital within the West of 4th site. A sub-slab depressurization system (SSDS) historically operated at the 5900 1st Avenue South (formerly known as Natus Medical building or Olympic Medical building) and at the Pacific Food Systems, Inc. North building (PFS-N) located at 5815 4th Avenue South, both in Seattle, Washington. The SSDS at 5900 1st Avenue South was shut down in July 2022, and the SSDS at PFS-N was shut down in August 2023; both following confirmation sampling demonstrating that vapor intrusion was not causing unacceptable chemical concentrations in indoor air. The general site location is shown on Figure 1 and the locations of PFS-N and 5900 1st Avenue South relative to the Capital property are shown on Figure 2.

Operation of VI mitigation systems at PFS-N and 5900 1st Avenue South were operated in accordance with Exhibits B and D of Agreed Order No. DE 5348 entered into by the Washington State Department of Ecology (Ecology) and Capital on January 24, 2008 (Agreed Order) and with the *Revised Vapor Intrusion Assessment, Monitoring, and Mitigation* (VIAMM) *Plan,* prepared by Farallon Consulting, L.L.C. (Farallon; Farallon 2015a) under Agreed Order No. DE 10402 entered into by Ecology and the West of 4th Group. Based on the results of additional investigation and sampling at both locations, continued SSDS operations are no longer warranted.

1.1 Purpose of Report

The purpose of this report is to provide a summary of the final summary report for the VI mitigation measures . A full analysis of the shutdown is detailed in the Draft PFS-N Vapor Intrusion Mitigation System Shut Down Investigation Results Technical Memorandum prepared by Landau dated February 28,2025 (PFS-N Shut Down Tech Memo; Landau 2025a)

1.2 Report Organization

The report is organized as follows:

- **Section 1: Introduction**: Presents the report's purpose
- Section 2: Site Description and Background: Provides a description of the Capital Area of Investigation and a summary of the PFS-N and 5900 1st Avenue South buildings' backgrounds
 - **Section 3: Inspection, Monitoring, and Maintenance Procedures**: Discusses the procedures used for the SSDSs' inspection, monitoring, and maintenance
- Section 4: Inspection, Monitoring, and Maintenance Results: Discusses the results, inspection and monitoring of the PFS-N SSDS, and maintenance activities conducted at the PFS-N building
- **Section 5: Conclusions**: Presents Landau's conclusions regarding the SSDSs' monitoring and performance air sampling results for the PFS-N and 5900 1st Avenue South buildings
- Section 6: Planned Work: Discusses whether any future work is planned or suggested.
- Section 7: Use of this Report

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• Section 8: References: Provides a list of the documents used in preparation of this report.

2.0 SITE DESCRIPTION AND BACKGROUND

This section provides a description of the Capital Area of Investigation (as shown on Figure 2) within which the PFS-N and 5900 1st Avenue South buildings are located and a summary of each building's background, including a discussion of the basis for each VI mitigation plan and the SSDSs's operation.

2.1 Site Description

The Capital property (Site) is located at 5801 Third Avenue South between South Mead Street to the north and South Fidalgo Street to the south, and between 4th Avenue South to the east and 1st Avenue South to the west in Section 39, Township 24 South, Range 4 East in Seattle, King County, Washington (Figure 2). The Site is one of several sources of halogenated volatile organic compounds (HVOCs) within the West of 4th remediation site. Groundwater impacted with trichloroethene (TCE) extends downgradient to the south-southwest from the property. The Capital Area of Investigation is defined as the area south of South Mead Street, east of 1st Avenue South, north of South Front Street, and west of 4th Avenue South, and includes the property on the northwest corner of 4th Avenue South and South Mead Street (Farallon 2009b; Figure 2). The Capital Area of Investigation is within Seattle city limits in King County, Washington in an area zoned for industrial light manufacturing. Properties within the Capital Area of Investigation include a mixture of light industrial and commercial properties.

The PFS-N building is located adjacent to the east end of Capital Plant 4 (Figure 2), and is used by Pacific Food Systems, Inc. for warehouse storage, equipment maintenance, and machining.

The 5900 1st Avenue South building is located within the Capital Area of Investigation, south (downgradient) of Capital Plant 2 (Figure 2) and was previously used by Natus Medical Inc. for the manufacture and distribution of medical equipment. The building has also been historically referred to as the Olympic Medical building in prior Site documents. Natus Medical Inc., the most recent tenant, vacated the building between October and December 2020. The building is owned by CenterPoint Properties and was vacant during the 2022 time period when final sampling and shutdown activities occurred.

2.2 5900 1st Avenue South (Former Natus Medical and Former Olympic Medical)

2.2.1 Background

The 5900 1st Avenue South building is located south of the Capital Plant 1 and Plant 5 buildings.^a According to prior Site documents prepared by others (Farallon 2009a), Phillips Services Corporation (PSC) initially conducted a Tier 3 VI assessment at the building; subsequently, Capital was identified as the lead business responsible for VI mitigation.

The Tier 3 VI assessment was conducted in 2005 and included sampling indoor air to determine whether commercial indoor air cancer exceedance factors (CEFs) and non-cancer exceedance factors (NCEFs)

^a There are no known HVOC releases from Capital Plant 1 and Plant 5.

exceeded their respective ratio benchmarks in place at the time.^b The warehouse and manufacturing area results exceeded CEFs and NCEFs in the building, and a VI mitigation system was proposed by PSC for those areas based on the concentrations of TCE detected in indoor air (Farallon 2009a). Subsequent additional indoor air sampling by GeoEngineers Inc. in 2006 confirmed exceedances of TCE screening levels in effect at the time. In January of 2009, Farallon implemented mitigation in the form of a SSDS within the 5900 1st Avenue South building (Farallon 2009a). The VI mitigation system was designed according to specifications defined in the *Vapor Intrusion Mitigation Work Plan, Olympic Medical Facility, Seattle, Washington* (Farallon 2009b).

Natus Medical Inc., the former tenant, began closing its operation and vacating the building in 2020. Natus Medical Inc. completed closure of its operations in 2021 and the property remained vacant for the entirety of 2022 during SSDS Shut Down and confirmation sampling.

2.2.2 July 2022 SSDS Shut Down

The SSDS at 5900 1st Avenue South was shut down in 2022 in accordance with the *Work Plan for Vapor Intrusion Mitigation System Shut Down* Technical Memorandum (Landau 2022a), which was approved by Ecology in June 2022. Confirmation sampling was conducted during the third quarter 2022 and a draft report documenting the results of the confirmation sampling was submitted to Ecology in October 2022 (Landau 2022b). The report recommended permanent shutdown and decommissioning of the SSDS based on results below screening levels in both indoor air and sub-slab soil gas. Therefore, periodic inspection, monitoring, and maintenance of the SSDS were not conducted in 2023 and 2024 following the shut down and the results included herein do not include monitoring results for the 5900 1st Avenue South site.

2.3 PFS-N Building

2.3.1 Background

According to prior Site documents prepared by others, the HVOCs tetrachloroethene (PCE) and TCE were detected in soil gas at the PFS-N building in April 2011. The concentrations exceeded the screening levels used at the time to evaluate potential VI risk, which triggered indoor air analysis to further evaluate indoor air conditions (Farallon 2017). The results from the assessment of indoor and outdoor ambient air, conducted between 2012 and 2014, showed TCE concentrations in indoor air and VI was suspected to be contributing to the indoor air conditions.

Tier 4 mitigation measures were implemented in 2015, which consisted of an SSDS. Adjustments were made to optimize and confirm the extent of the negative pressure field exerted by the mitigation system (extension of the discharge stack, and additional differential pressure monitoring points) in 2017 and 2018. Despite implementation and optimization of the mitigation system, TCE results from indoor air sampling events remained relatively consistent, indicating a background TCE source, not VI, was the cause of volatile organic compounds in indoor air at PFS-N.

^b A site-specific VI evaluation method was developed by PSC and Ecology because Washington had no published guidance or VI screening levels at the time.

VI mitigation design specifications for the PFS-N building were developed in accordance with the *Vapor Intrusion Mitigation Design Plan* (Farallon 2014b). The need for VI mitigation at the PFS-N building was based on results from the *Tier 3 Vapor Intrusion Assessment* (Farallon 2014a, b).

2.3.2 2021 Chemical Inventory

Monitoring results at PFS-N showing indoor air TCE concentrations remained unchanged with the mitigation system operational indicated the presence of a background source of TCE in indoor air. As documented in the 2021 Annual Vapor Intrusion Mitigation Status Report(Landau 2022c), a chemical inventory completed by Landau in September 2021 identified a product being used at PFS-N that contains 30 to 50 percent TCE. The product, ZEP 45, is a spray can product used to clean parts; several spray cans were observed in the space including one sitting on a work bench. The presence of a TCE-containing compound explains the presence of the TCE concentrations in indoor air as well as why concentrations in indoor air remained unchanged following the installation of the SSDS. Further discussion and evaluation of this background source of TCE at PFS-N was summarized in the 2021 Annual Vapor Intrusion Mitigation Status Report (Landau 2022c).

2.3.3 Background source removal

After the Zep 45 product was identified (i.e., from the March 2022 monitoring event on), Landau instructed PFS-N personnel to remove all ZEP 45 in advance of sampling activities. Varying levels of compliance with these instructions were observed but in general, the tenant complied with the instructions or allowed the sampling team to remove the product prior to sampling. The tenant appeared to comply with the instructions for the 2023 monitoring events, as no ZEP 45 was observed during either sampling event. Removal of the product during sampling resulted in a significant decrease in indoor air TCE concentrations and all measured concentrations were below the current indoor air screening level for commercial workers of 2.85 micrograms per cubic meter (μ g/m³). Based on discussions with the tenant, they are continuing to use the Zep 45 product outside of sampling events but are using it more sparingly. Residual low-level TCE concentrations in indoor air are likely the result of continued product use outside of the sampling events and off gassing from parts and porous surfaces such as the wood work benches.

2.3.4 August 2023 SSDS Shut Down and Confirmation Monitoring

Following the removal of the background source during sampling, TCE concentrations in indoor air were consistently below the indoor air screening level and influent samples from the SSDS showed soil gas concentrations were also below the current TCE sub-slab soil gas screening level for commercial workers of 95 μ g/m³. The data indicated that the SSDS was not needed to control indoor air TCE concentrations. A work plan for shutdown and confirmation sampling of the PFS-N SSDS was submitted to Ecology (Landau 2023).

The SSDS at PFS-N was shut down on August 16, 2023 in accordance with the work plan (Landau 2023). Confirmation sampling was conducted in August, September, and December 2023. A report documenting the shutdown and results of the confirmation sampling has been prepared and submitted

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to Ecology (PFS-N Shut Down Memo, Landau 2025). The confirmation sampling results indicate permanent shutdown and decommissioning of the SSDS can occur based on results below screening levels in indoor air, including worst-case winter conditions. Therefore, no periodic inspection, monitoring, or maintenance of the SSDS was conducted in 2024.

3.0 2023 INSPECTION, MONITORING, AND MAINTENANCE PROCEDURES

This section presents the inspection and monitoring conducted at the PFS-N building during the 2023 period. As noted above, no inspections or monitoring were conducted at the 5900 1st Avenue South building in 2023 or 2024 or at the PFS-N building in 2024 due to system shutdown following the confirmation sampling. Inspection and monitoring at PFS-N were conducted in accordance with the Vapor Intrusion, Inspection, Monitoring, and Maintenance (VIIMM) Work Plan, Pacific Seafoods North building (Farallon 2015b).

3.1 Inspections and Monitoring

Prior to shutdown in August 2023, periodic inspection and monitoring were conducted to confirm that the PFS-N SSDS was operating effectively. Inspection and monitoring of the SSDS included the following:

- General system component inspection
- Negative pressure field extension (PFE) monitoring
- Reviewing the onsite SSDS operations documentation maintained by the trained tenant contact
- Periodic air quality monitoring.

3.1.1 Tenant Inspections

Inspections by the tenant were conducted monthly in 2023 until the August shutdown to ensure that the SSDS was operating properly. The building tenant was to contact the designated consultant and/or Capital personnel if the SSDS was not operating properly.

3.1.2 Annual Inspections

An annual inspection was conducted in 2023 to observe and document the condition of the SSDS and to record changes to each building and surrounding area that could affect the performance of the SSDS. The annual inspection consisted of observing and documenting the condition of the components for the SSDS and any structural changes or modifications to the building and to adjacent buildings or structures, as well as recording the SSDS's current pressure gauge measurements. Previously documented pressure gauge measurements were used for comparison during the inspections. Photographs were taken during the inspection, as necessary, to document any deterioration of materials (e.g., cracks in piping, mounting damage) or other pertinent changes in the condition of the SSDS, building structure, or other factors that could have impacted the system's operation or effectiveness.

3.1.3 Pressure Field Extension Monitoring

PFE monitoring was conducted at PFS-N in March 2023. PFE monitoring consisted of measuring the pressure differential across each building slab while the SSDS was operating. The results from PFE monitoring were used to confirm that the negative pressure field extended across the designated mitigation area.

Five permanent sub-slab monitoring ports were previously installed in the building slab at the PFS-N building for PFE monitoring. The sub-slab monitoring ports are flush-mounted to the building slab and have a tamper-resistant cap. The sub-slab monitoring ports were used for PFE monitoring to verify the negative pressure field extends across the slab under the entire building. Effective depressurization occurs at any measurable vacuum; however, for evaluation purposes, a negative pressure of 0.005 inches of water (IOW) column or more at each of the sub-slab monitoring ports is more than sufficient to demonstrate effective depressurization. The tamper-resistant cap secures the sub-slab monitoring port closed between PFE monitoring events to maintain the integrity of the depressurization applied by the SSDS.

3.1.4 Air Quality Monitoring

Air quality monitoring was performed at the PFS-N building. The data were:

- Compared with previous VI assessment data and current screening levels to evaluate the reduction in HVOCs over time
- Used to evaluate system performance.

During normal operations, air quality monitoring was conducted semiannually in accordance with the VIIMM Work Plan (Farallon 2015b). During 2023, air quality monitoring was conducted in March as part of the semiannual monitoring, in August at the time of the SSDS shutdown, and in September and December as part of the shutdown confirmation sampling. Air samples collected during this reporting period were collected at the designated sampling locations used during previous investigations/sampling events using 6-liter Summa canisters with flow controllers set to collect a sample over an 8-hour duration (see Figures 3 and 4). The indoor and outdoor air samples were analyzed for PCE, TCE, Cis-1,2-dichloroethene (cDCE), Trans-1,2-dichloroethene, 1,1-dichloroethene, and vinyl chloride by U.S. Environmental Protection Agency Method TO-15 Selected Ion Monitoring. TCE is the primary constituent of concern because it historically exceeded screening criteria. All sampling was performed in accordance with the standard operating procedures established during completion of the Tier 3 VI Assessments (Farallon 2013) and the VIAMM Plan (Farallon 2015a). However, periodic updates to the Ecology Cleanup Levels and Risk Calculations database have resulted in changes to the applicable cleanup levels over time, including establishment of default screening levels for adult commercial workers in buildings that are not used for residential purposes. Indoor air and sub-slab soil gas results collected as part of the 2023 monitoring and confirmation sampling programs were compared to the current cleanup levels. Results and current cleanup levels are presented in Table 1.

3.2 System Evaluation

Results from the air quality monitoring, PFE monitoring, groundwater monitoring, and annual inspections were evaluated to evaluate system operation and compliance with indoor air cleanup levels. There were no significant structural changes to the building that would affect vapor intrusion pathways or system performance.

3.3 Sub-Slab Depressurization System Maintenance

SSDS maintenance was performed as needed, based on conditions observed during system monitoring and/or optimization visits until SSDS shutdown in August 2023. The following were inspected for potential maintenance needs:

- Exhaust blower, inspected for excessive noise or vibration
- Pressure gauge and pressure measurements, comparison to verify pressure gauge is operating properly and there is no significant deviation between the two measurements

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• Piping, inspected for damage or cracks.

4.0 2023 INSPECTION, MONITORING, AND MAINTENANCE RESULTS

The 5900 1st Avenue South SSDS startup occurred in January 2009 and the system was shut down in July 2022; system decommissioning is pending Ecology approval.

During the 2023 operational period, the PFS-N SSDS operated continuously until the system was shut down in August 2023. Operation parameters for the PFS-N SSDS are summarized in Table 2. Decommissioning of the PFS-N system is pending Ecology approval.

4.1 Inspection, Monitoring, and Maintenance Activities

Inspections of the PFS-N SSDS were conducted on March 29, 2023 and monitoring and inspection results were documented during the site visit. Air quality monitoring in 2023 was conducted in March concurrent with the inspection, in August following shutdown of the SSDS shutdown, and in September and December 2023 for post-shutdown evaluation.

Each sampling event included collecting indoor air samples and an outdoor ambient air sample. During the March monitoring event, an SSDS influent sample was collected. During confirmation sampling events after the system shutdown, sub-slab vapor samples were collected from new vapor sampling ports installed in August 2023. The locations of the samples are depicted on Figure 3. Sampling was conducted in general accordance with the procedures described in the VIIMM Work Plan (Farallon 2015b) and its supporting documents. Air quality monitoring parameters and results are summarized in Table 1. The laboratory analytical reports are provided in Appendix A.

The SSDS influent sampling consisted of a 5-minute grab sample of the combined soil gas influent being extracted by the SSDS prior to discharge to the exhaust stack. The purpose of this sampling was to confirm that the discharge to outdoor ambient air would comply with Puget Sound Clean Air Agency (PSCAA) regulations (less than 1,000 pounds per year total HVOCs), and to evaluate overall trends in soil gas concentrations. The sample was collected using a 1-liter Summa canister at a sampling port located prior to entry to the SSDS blower. Samples were collected while the system was operating. A slight vacuum was maintained in the canister to mitigate potential loss of the sampled influent.

4.2 Inspection, Monitoring, and Maintenance Results

Results from the PFS-N air quality sampling and the SSDS operation monitoring are described below. The air quality monitoring sample locations are depicted on Figure 3. The sampling parameters, screening levels, and results are summarized on Table 1. Table 2 provides a summary of SSDS operation parameters for PFS-N.

4.2.1 PFS-N Results

As discussed in Section 2.3, sampling results at PFS-N (including results of 2023 sampling) indicated the presence of a background TCE source in the building was the source of elevated TCE previously detected in indoor air and beginning in 2022, the tenant was instructed to remove all TCE-containing products in

advance of monitoring. Air quality monitoring results from samples collected in 2023 indicate that Constituents of Concern were detected at lower concentrations than prior rounds of monitoring at PFS-N (Table 1 and Figure 4), when the TCE-containing products were present in the space during sampling. 2023 sampling results for detected constituents, from both routine sampling and shutdown investigation sampling, are summarized below:

4.2.1.1 TCE

- 2023 sample results, both pre and post shutdown, show TCE concentrations in indoor air ranging from 0.177 $\mu g/m^3$ to 0.672 $\mu g/m^3$. All 2023 indoor air concentrations were below the Model Toxics Control Act (MTCA) Method B indoor air cleanup level for commercial workers of 2.85 $\mu g/m^3$.
- TCE was detected above the laboratory reporting limit in the outdoor air sample collected in March but was not detected in the August, September, or December outdoor air samples.
- The influent SSDS influent TCE concentration, representative of average soil gas concentrations, was 44.0 μ g/m³ in March 2023 (below the MTCA Method B Commercial Worker Sub-Slab Soil Gas screening level of 95 μ g/m³).
- Measured TCE sub-slab soil gas concentrations from soil gas sampling ports ranged from 33.0 $\mu g/m^3$ to 1,960 $\mu g/m^3$ c. Although sub-slab soil gas TCE concentrations are above the screening level, indoor air concentrations remained low; in fact, the December 2023 post shutdown indoor air concentrations (worst case atmospheric conditions) were among the lowest measured concentrations.

4.2.1.2 PCE

- PCE was detected above the laboratory reporting limit in all samples except the December outdoor air sample collected in 2023. Detected concentrations in indoor air ranged from 0.212 $\mu g/m^3$ to 0.588 $\mu g/m^3$, all well below the MTCA Method B Commercial Worker indoor air screening level of 44.9 $\mu g/m^3$.
- The detected PCE concentration in outdoor air during the March, August, and September sampling events ranged from $0.0692~\mu g/m^3$ to $0.115~\mu g/m^3$. Typically, outdoor air concentrations would be subtracted from indoor air concentrations to normalize the indoor air results. However, for the purposes of this report, original data are reported.
- The SSDS influent PCE concentration in March, representative of average soil gas concentrations, was 13.6 μg/m³, below the MTCA Method B Commercial Worker Sub-Slab Soil Gas screening level of 1,200 μg/m³.
- PCE sub-slab soil gas concentrations from soil gas sampling ports ranged from 0.914 μ g/m³ to 1,080 μ g/m³, below the MTCA Method B Commercial Worker Sub-Slab Soil Gas screening level of 1,500 μ g/m³.

 $^{^{\}rm c}$ One sub-slab sample had an estimated value of 6,120E $\mu {\rm g/m^3}$; however, the concentration was outside of the quantitation range

4.2.1.3 Vinyl Chloride

• Vinyl Chloride was detected above the laboratory reporting limit in both the indoor air sample and the outdoor air sample collected in August (0.0600 μ g/m³, and 0.0762 μ g/m³ respectively). Concentrations were well below the MTCA Method B Commercial Worker indoor air screening level of 1.33 μ g/m³. The compound was not detected above the laboratory reporting limit in any other sample.

4.2.1.4 cDCE

• cDCE was not detected in indoor air or outdoor air at concentrations above the laboratory report limit but was detected in the influent sample and two sub-slab soil gas samples above the laboratory reporting limit. Concentrations ranged from 0.555 μg/m³ to 3.00 μg/m³. These levels are well below the MTCA Method B Commercial Worker Sub-Slab Soil Gas screening level of 5,200 μg/m³.

4.2.1.5 SSDS Operation

The SSDS operating parameters were measured in March 2023, and were not measured in September due to the SSDS shutdown that was completed in August. In March, operating vacuum was measured at 3.5 IOW, resulting in a measured negative pressure field extension vacuum range of 0.012 to 0.054 IOW at sub-slab monitoring ports SSMP-1 through SSMP-5. System flowrate was measured at 29.20 standard cubic feet per minute. Table 2 provides a summary of the March 2023 SSDS operation parameters. Pressure measurements indicate the SSDS maintained a sufficiently negative pressure field across the entire building slab during its operation prior to August 2023.

The SSDS soil gas influent sample provided a measurement of average soil gas concentrations beneath the slab and was also used to verify that total emissions remain below PSCAA regulations. SSDS influent sample concentrations have been declining since the SSDS startup with a steady-state rate of removal from approximately 2016 to March 2023. Additionally, influent sample concentrations confirm annual discharge remained below PSCAA requirements through the final influent sample, collected in March 2023. Figure 4 shows the TCE concentration trend in influent samples over time.

5.0 CONCLUSIONS

5.1 5900 1st Avenue South

The SSDS system was shut down in July 2022. Subsequent SSDS and confirmation sampling was conducted during the third quarter 2022 and indicated results below screening levels in both indoor air and sub-slab soil gas. A draft report documenting the results of the confirmation sampling was submitted to Ecology in October 2022 (Landau 2022b). The report recommends decommissioning of the SSDS.

5.2 PFS-N

The PFS-N indoor air quality monitoring results for TCE have been below the indoor air cleanup levels since removal of the TCE-containing products during sampling. The tenant continues to use the Zep 45 product that contains TCE outside of the sampling events and residual indoor air concentrations are most likely the result of off-gassing from porous surfaces (e.g. wooden workbenches) or parts. Operation of the SSDS did not affect TCE concentrations in indoor air and the system was therefore shut down in August 2023 followed by three sampling events to confirm that VI is not causing unacceptable indoor air conditions in the absence of the SSDS. The post-shutdown confirmation sampling included a December sampling event when atmospheric conditions present a worst-case scenario for vapor intrusion. All indoor air TCE concentrations remained well below screening levels following SSDS shutdown, including during the December sampling event, where some of the lowest TCE concentrations to date were recorded. A full analysis of the shutdown and confirmation sampling is detailed in the PFS-N Shut Down Tech Memo (Landau 2025). Based on the data collected before and after the SSDS shut-down, the SSDS system does not provide a reduction in indoor air TCE concentrations and permanent decommissioning of the SSDS is recommended.

6.0 PLANNED WORK FOR 2025

No additional sampling is planned for 2025. Based on the results of the previous investigations decommissioning of the SSDS systems at both 5900 1st Avenue and PFS-N are recommended for 2025, pending Ecology concurrence. Decommissioning of the SSDSs will be conducted by a licensed contractor and will include decommissioning the extraction vaults, removal of system piping, disconnecting power supplies, and removal of the roof-mounted blowers. The schedule for this task is based on Ecology approval and contractor availability.

7.0 USE OF THIS REPORT

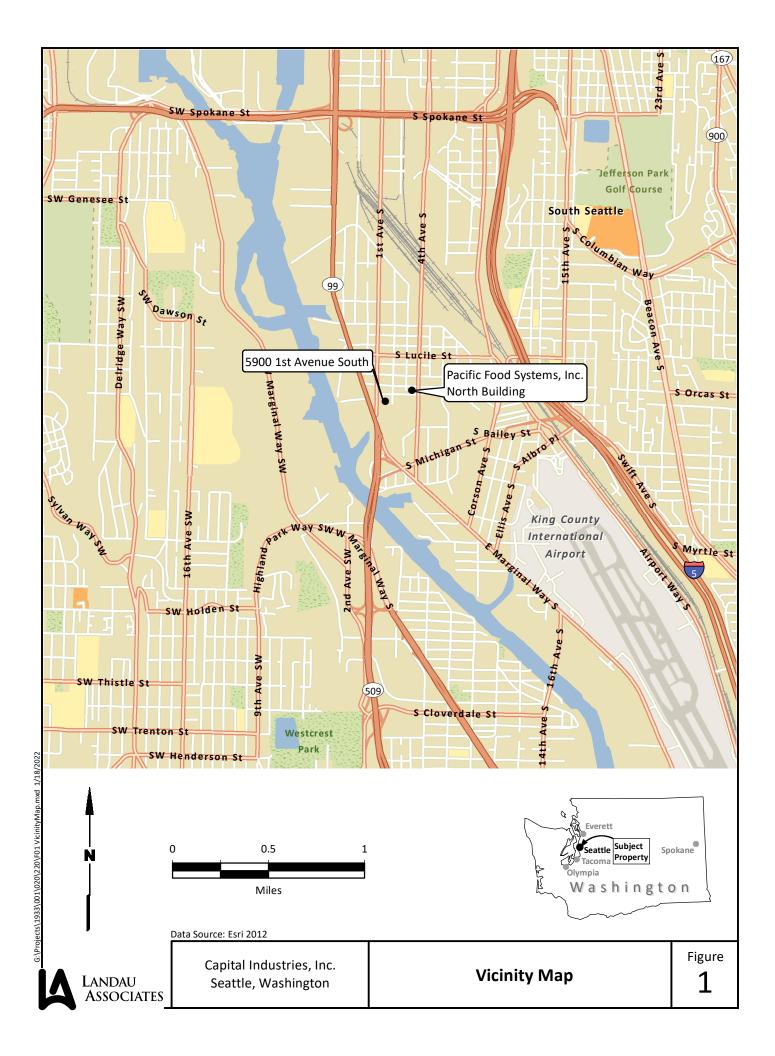
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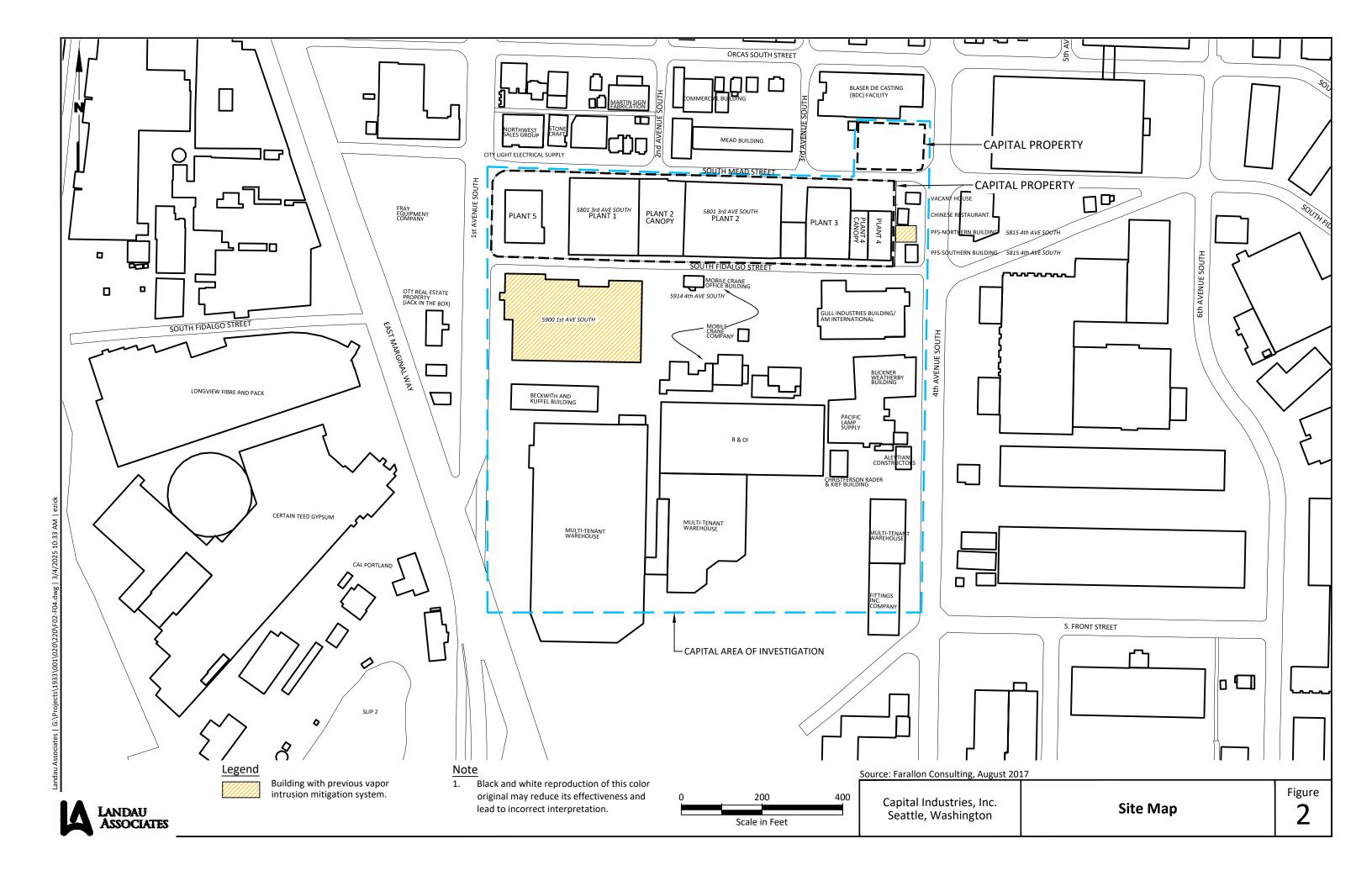
8.0 REFERENCES

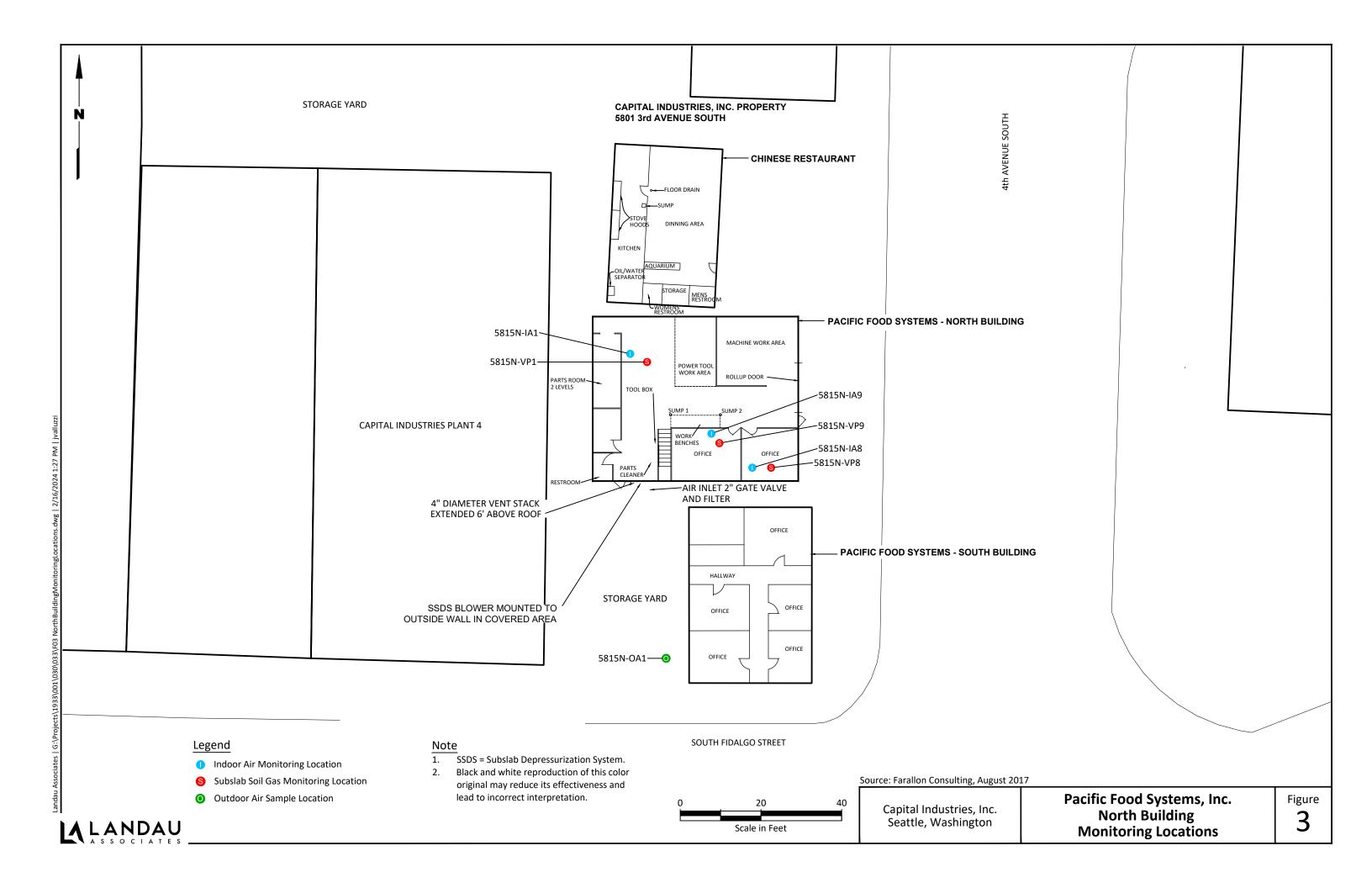
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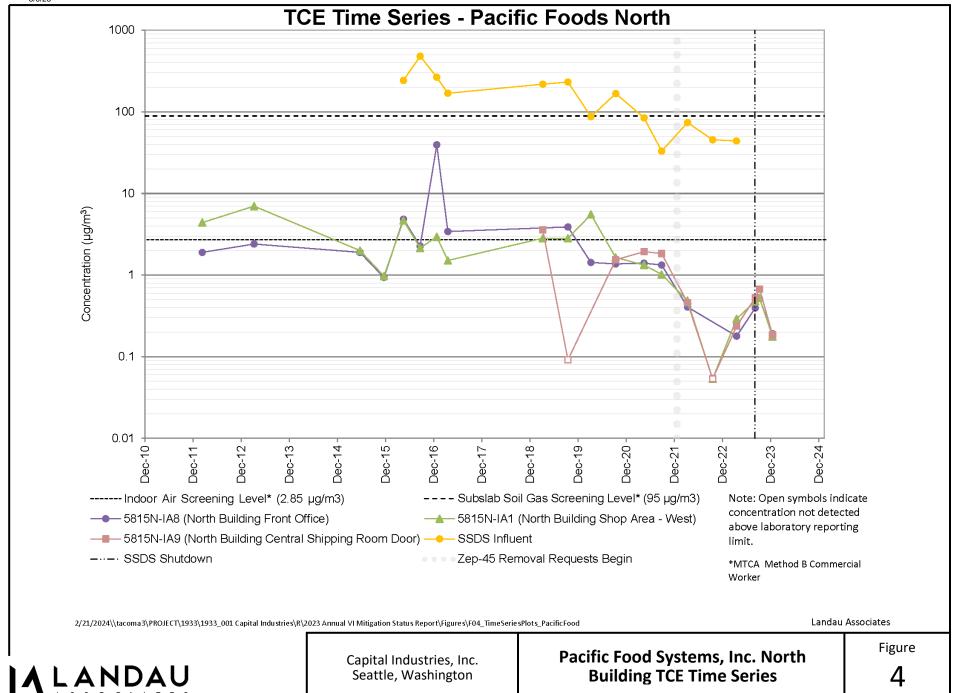


Table 1

Summary of 2023 Vapor Intrusion Assessment Analytical Results Pacific Food Systems, Inc. North Building 5815 4th Avenue South Seattle, Washington

						Volatile Organic Compounds (µg/m³; TO-15, TO-15 SIM)					
Sample Type	Location	Location Description	Sample Identification	Sample Date	Notes	PCE	TCE	cis-1,2- Dichloroethene	trans-1,2- Dichloroethene	1,1- Dichloroethene	Vinyl Chloride
		Lowe	st Commerical Worker Indoor A	ir MTCA Method I	3 Cleanup Level (a)	44.9	2.85	156	156	779	1.33
		Western side of Pacific	5815N-IA1-20230329	3/29/2023	Operational	0.530	0.291	0.0972 U	0.0977 U	0.0217 U	0.198 U
	5815N-IA1	Food Systems North	5815N-IA1-20230817	8/17/2023		0.321	0.476	0.198 U	0.595 U	0.0397 U	0.0600
	2012IN-IAT	Building Shop Area	5815N-IA1-20230919	9/19/2023	Post-Shutdown	0.229	0.524	0.198 U	0.595 U	0.0397 U	0.0256 U
		Bulluling Shop Area	5815N-IA1-20231227	12/27/2023		0.212	0.177	0.198 U	0.595 U	0.0397 U	0.0256 U
			5815N-IA8-20230329	3/29/2023	Operational	0.588	0.179	0.0972 U	0.0977 U	0.0217 U	0.198 U
Indoor Air (c)	5815N-IA8	Pacific Food Systems	5815N-IA8-20230817	8/17/2023	Post-Shutdown	0.271	0.395	0.317 U	0.952 U	0.0634 U	0.0409 U
	5815N-IA8	North Building Front Office	5815N-IA8-20230919	9/19/2023		0.214	0.517	0.198 U	0.595 U	0.0397 U	0.0256 U
			5815N-IA8-20231227	12/27/2023		0.258	0.191	0.198 U	0.595 U	0.0397 U	0.0256 U
	5815N-IA9	Pacific Food Systems North Building Central Shipping Room Proximate to Door	5815N-IA9-20230329	3/29/2023	Operational	0.534	0.236	0.0972 U	0.0977 U	0.0217 U	0.198 U
			5815N-IA9-20230817	8/17/2023	Post-Shutdown	0.464 J	0.526 J	0.476 U	1.43 U	0.0952 U	0.0613 U
			5815N-IA9-20230919	9/19/2023		0.218	0.672	0.198 U	0.595 U	0.0397 U	0.0256 U
			5815N-IA9-20231227	12/27/2023		0.245	0.185	0.198 U	0.595 U	0.0397 U	0.0256 U
			5815N-OA1-20230329	3/29/2023	Operational	0.115	0.0119	0.0972 U	0.0977 U	0.0217 U	0.198 U
Outdoor Air	5815N-OA1	Outside east of Pacific Food Systems buildings on telephone pole	5815N-OA1-20230817	8/17/2023		0.344	0.0645 U	0.238 U	0.714 U	0.0476 U	0.0762
Outdoor Air			5815N-OA1-20230919	9/19/2023	Post-Shutdown	0.0692	0.0537 U	0.198 U	0.595 U	0.0397 U	0.0256 U
			5815N-OA1-20231227	12/27/2023		0.0678 U	0.0537 U	0.198 U	0.595 U	0.0397 U	0.0256 U
		Lowest Comm	erical Worker Sub-slab Soil Gas	MTCA Method B	Screening Level (b)	1,500	95	5,200	5,200	26,000	44
			5815N-VP1-20230818	8/18/2023		5.76	316	0.793 U	2.38 U	0.159 U	0.102 U
	5815N-VP1	Located near 5815N-IA1	5815N-VP1-20230920	9/20/2023	Post-Shutdown	97.5	1,960	2.40	2.38 U	0.159 U	0.102 U
			5815N-VP1-20231228	12/28/2023		1,080	6,120 E	3.00	2.38 U	0.159 U	0.102 U
			5815N-VP8-20230818	8/18/2023		1.82	33.0	0.793 U	2.38 U	0.159 U	0.102 U
Sub-Slab	5815N-VP8	Located near 5815N-IA8	5815N-VP8-20230920	9/20/2023	Post-Shutdown	0.914	61.9	0.793 U	2.38 U	0.159 U	0.102 U
			5815N-VP8-20231228	12/28/2023		50.4	338	0.793 U	2.38 U	0.159 U	0.102 U
			5815N-VP9-20230818	8/18/2023		3.75	180	0.793 U	2.38 U	0.159 U	0.102 U
	5815N-VP9	Located near 5815N-IA9	5815N-VP9-20230920	9/20/2023	Post-Shutdown	2.77	149	0.793 U	2.38 U	0.159 U	0.102 U
			5815N-VP9-20231228	12/28/2023		52.9	403	0.793 U	2.38 U	0.159 U	0.102 U
SSDS	SSDS Influent	SSDS Influent Sample Port	5815N-INFLUENT-20230329	3/29/2023	Operational	13.6	44.0	0.555	0.391 U	0.0868 U	0.791 U

Notes:

Bold text indicates detected analyte

Blue shading indicates detected analyte exceeds lowest Method B screening level for commercial workers.

- (a) Indoor air screening levels are compared to indoor air results only and are the lowest of Cancer or Noncancer levels.
- (b) Sub-slab screening levels are compared to subslab vapor results only and are the lowest of Cancer or Noncancer levels.
- (c) Indoor air concentrations are not normalized to outdoor air concentrations.
- U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
- \boldsymbol{J} = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- E = Value above quantitation range

Acronyms/Abbreviations:

μg/m³ = micrograms per cubic meter

MTCA = Model Toxics Control Act

Pacific Food Systems = Pacific Food Systems, Inc.

PCE = tetrachloroethene

SSDS = subslab depressurization system

TCE = trichloroethene

Table 2

Summary of 2023 Pacific Food Systems, Inc. North Building SSDS Operation Parameters Seattle, Washington

Pressure Gauge Vacuum Reading (IOW)							Field-Measured				easured uent ntration	Remova (μg/m		Disc	d Annual harge 'year)
Date	SSMP-1	SSMP-2	SSMP-3 ¹	SSMP-4 ¹	SSMP-5 ¹	Pressure Gauge Vacuum Reading (IOW)	Operating Vacuum (IOW)	SVE System Flow (scfm)	Pressure Gauge/Field- Measured Pressure Differential (percent)	PCE	TCE	PCE	TCE	PCE	TCE
3/29/2023	0.054	0.014	0.012	0.020	0.010	3.2	3.5	29.20	109%	13.6	44.0	11.2	36.4	0.013	0.042
VIMMWP SSDS Operations Goals	>0.005	>0.005	>0.005	>0.005	>0.005	N	Α	NA	75 - 125 percent		N	IA	•	1,000	bs/year

Notes:

Acronyms and Abbreviations:

% = percent IOW = inches of water lbs = pounds

μg = micrograms m³ = cubic meter

min = minute

NA = not applicable

PCE = tetrachloroethene

scfm = standard cubic feet per minute SSDS = subslab depressurization system SSMP = subslab monitoring probe SVE = soil vapor extraction TCE = trichloroethene

VIMMWP = Vapor Intrusion, Inspection, Monitoring,

and Maintenance Work Plan

¹Subslab monitoring ports SSMP-3 through SSMP-5 were installed in April 2018.

² Removal Rate = SVE flow * Measured PCE or TCE concentration

Laboratory Reports



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info@fremontanalytical.com

Landau Associates Jennifer Wynkoop 155 NE 100th St., Ste 032

Seattle, WA 98125

RE: Capital Industries

Work Order Number: 2303662

April 06, 2023

Attention Jennifer Wynkoop:

Fremont Analytical, Inc. received 5 sample(s) on 3/29/2023 for the analyses presented in the following report.

Volatile Organic Compounds by EPA Method TO-15

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Date: 04/06/2023



CLIENT: Landau Associates Work Order Sample Summary

Project: Capital Industries

Work Order: 2303662

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2303662-001	5815N-IA8-20230329	03/29/2023 8:20 AM	03/29/2023 5:19 PM
2303662-002	5815N-IA9-20230329	03/29/2023 8:22 AM	03/29/2023 5:19 PM
2303662-003	5815N-IA1-20230329	03/29/2023 8:23 AM	03/29/2023 5:19 PM
2303662-004	5815N-OA1-20230329	03/29/2023 8:25 AM	03/29/2023 5:19 PM
2303662-005	5815N-Influent-20230329	03/29/2023 10:10 AM	03/29/2023 5:19 PM



Case Narrative

WO#: **2303662**Date: **4/6/2023**

CLIENT: Landau Associates
Project: Capital Industries

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Air samples are reported in ppbv and ug/m3.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Standard temperature and pressure assumes 24.45 = (25C and 1 atm).

Original



Qualifiers & Acronyms

WO#: **2303662**

Date Reported: 4/6/2023

Qualifiers:

- * Flagged value is not within established control limits
- B Analyte detected in the associated Method Blank
- D Dilution was required
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- I Analyte with an internal standard that does not meet established acceptance criteria
- J Analyte detected below Reporting Limit
- N Tentatively Identified Compound (TIC)
- Q Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S Spike recovery outside accepted recovery limits
- ND Not detected at the Reporting Limit
- R High relative percent difference observed

Acronyms:

%Rec - Percent Recovery

CCB - Continued Calibration Blank

CCV - Continued Calibration Verification

DF - Dilution Factor

DUP - Sample Duplicate

HEM - Hexane Extractable Material

ICV - Initial Calibration Verification

LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate

MCL - Maximum Contaminant Level

MB or MBLANK - Method Blank

MDL - Method Detection Limit

MS/MSD - Matrix Spike / Matrix Spike Duplicate

PDS - Post Digestion Spike

Ref Val - Reference Value

REP - Sample Replicate

RL - Reporting Limit

RPD - Relative Percent Difference

SD - Serial Dilution

SGT - Silica Gel Treatment

SPK - Spike

Surr - Surrogate



Client: Landau Associates

WorkOrder: 2303662

Project: Capital Industries

 Client Sample ID:
 5815N-IA8-20230329
 Date Sampled:
 3/29/2023

 Lab ID:
 2303662-001A
 Date Received
 3/29/2023

Sample Type: Summa Canister

Analyte	Concentration		Reporting Limit		Qual	Method	Date/Analy	st
Volatile Organic Compounds by EF	PA Method TC) <u>-15</u>						
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
1,1-Dichloroethene (DCE)	<0.00547	<0.0217	0.00547	0.0217		EPA-TO-15	04/01/2023	LB
cis-1,2-Dichloroethene	<0.0245	<0.0972	0.0245	0.0972		EPA-TO-15	04/01/2023	LB
Tetrachloroethene (PCE)	0.0867	0.588	0.0111	0.0753		EPA-TO-15	04/01/2023	LB
trans-1,2-Dichloroethene	<0.0246	<0.0977	0.0246	0.0977		EPA-TO-15	04/01/2023	LB
Trichloroethene (TCE)	0.0332	0.179	0.00125	0.00672		EPA-TO-15	04/01/2023	LB
Vinyl chloride	<0.0774	<0.198	0.0774	0.198		EPA-TO-15	04/01/2023	LB
Surr: 4-Bromofluorobenzene	92.1 %Rec		70-130			EPA-TO-15	04/01/2023	LB

 Client Sample ID:
 5815N-IA9-20230329
 Date Sampled:
 3/29/2023

 Lab ID:
 2303662-002A
 Date Received
 3/29/2023

Sample Type: Summa Canister

Analyte	Concen	tration Reporting Limit		Qual	Method	Date/Analyst						
Volatile Organic Compounds by EPA Method TO-15												
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)								
1,1-Dichloroethene (DCE)	< 0.00547	<0.0217	0.00547	0.0217		EPA-TO-15	04/01/2023	LB				
cis-1,2-Dichloroethene	<0.0245	< 0.0972	0.0245	0.0972		EPA-TO-15	04/01/2023	LB				
Tetrachloroethene (PCE)	0.0786	0.534	0.0111	0.0753		EPA-TO-15	04/01/2023	LB				
trans-1,2-Dichloroethene	<0.0246	<0.0977	0.0246	0.0977		EPA-TO-15	04/01/2023	LB				
Trichloroethene (TCE)	0.0439	0.236	0.00125	0.00672		EPA-TO-15	04/01/2023	LB				
Vinyl chloride	<0.0774	<0.198	0.0774	0.198		EPA-TO-15	04/01/2023	LB				
Surr: 4-Bromofluorobenzene	91.3 %Rec		70-130			EPA-TO-15	04/01/2023	LB				



WorkOrder: 2303662

Project: Capital Industries

 Client Sample ID:
 5815N-IA1-20230329
 Date Sampled:
 3/29/2023

 Lab ID:
 2303662-003A
 Date Received
 3/29/2023

Sample Type: Summa Canister

Analyte	Concen	tration	Repoi Lin	•	Qual	Method	Date/Analy	st
Volatile Organic Compounds by El	PA Method TC	<u>)-15</u>						
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
1,1-Dichloroethene (DCE)	<0.00547	<0.0217	0.00547	0.0217		EPA-TO-15	04/01/2023	LB
cis-1,2-Dichloroethene	<0.0245	< 0.0972	0.0245	0.0972		EPA-TO-15	04/01/2023	LB
Tetrachloroethene (PCE)	0.0781	0.530	0.0111	0.0753		EPA-TO-15	04/01/2023	LB
trans-1,2-Dichloroethene	<0.0246	<0.0977	0.0246	0.0977		EPA-TO-15	04/01/2023	LB
Trichloroethene (TCE)	0.0541	0.291	0.00125	0.00672		EPA-TO-15	04/01/2023	LB
Vinyl chloride	<0.0774	<0.198	0.0774	0.198		EPA-TO-15	04/01/2023	LB
Surr: 4-Bromofluorobenzene	91.7 %Rec		70-130			EPA-TO-15	04/01/2023	LB

 Client Sample ID:
 5815N-OA1-20230329
 Date Sampled:
 3/29/2023

 Lab ID:
 2303662-004A
 Date Received
 3/29/2023

Analyte	Concent	tration	Repo Lin	•	Qual	Method	Date/Analy	st
Volatile Organic Compounds by	y EPA Method TC) <u>-15</u>						
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
1,1-Dichloroethene (DCE)	< 0.00547	<0.0217	0.00547	0.0217		EPA-TO-15	04/01/2023	LB
cis-1,2-Dichloroethene	<0.0245	<0.0972	0.0245	0.0972		EPA-TO-15	04/01/2023	LB
Tetrachloroethene (PCE)	0.0170	0.115	0.0111	0.0753		EPA-TO-15	04/01/2023	LB
trans-1,2-Dichloroethene	<0.0246	<0.0977	0.0246	0.0977		EPA-TO-15	04/01/2023	LB
Trichloroethene (TCE)	0.00222	0.0119	0.00125	0.00672		EPA-TO-15	04/01/2023	LB
Vinyl chloride	<0.0774	<0.198	0.0774	0.198		EPA-TO-15	04/01/2023	LB
Surr: 4-Bromofluorobenzene	91.8 %Rec		70-130			EPA-TO-15	04/01/2023	LB



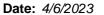
WorkOrder: 2303662

Project: Capital Industries

 Client Sample ID:
 5815N-Influent-20230329
 Date Sampled:
 3/29/2023

 Lab ID:
 2303662-005A
 Date Received
 3/29/2023

Analyte	Concen	tration	Repo Lir	•	Qual	Method	Date/Analy	st
Volatile Organic Compounds b	y EPA Method TO	<u> </u>						
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
1,1-Dichloroethene (DCE)	<0.0219	<0.0868	0.0219	0.0868		EPA-TO-15	04/01/2023	LB
cis-1,2-Dichloroethene	0.140	0.555	0.0981	0.389		EPA-TO-15	04/01/2023	LB
Tetrachloroethene (PCE)	2.00	13.6	0.0444	0.301		EPA-TO-15	04/01/2023	LB
trans-1,2-Dichloroethene	<0.0985	<0.391	0.0985	0.391		EPA-TO-15	04/01/2023	LB
Trichloroethene (TCE)	8.18	44.0	0.00500	0.0269		EPA-TO-15	04/01/2023	LB
Vinyl chloride	<0.310	<0.791	0.310	0.791		EPA-TO-15	04/01/2023	LB
Surr: 4-Bromofluorobenzene	82.7 %Rec		70-130			EPA-TO-15	04/01/2023	LB





Work Order: 2303662

Surr: 4-Bromofluorobenzene

13.0

QC SUMMARY REPORT

0

CLIENT: Landau Associates

Volatile Organic Compounds by EPA Method TO-15

Project:	Capital Indust	ries						voiatile	Organic	Compoun	us by EFF	· wethou	10-
Sample ID: LCS	S-R82957	SampTyp	e: LCS			Units: ppbv		Prep Date	e: 3/31/2 0	23	RunNo: 829	957	
Client ID: LCS	SW	Batch ID:	R82957					Analysis Date	e: 3/31/2 0	23	SeqNo: 172	26172	
Analyte			Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride			2.00	0.0774	2.000	0	100	70	130				
1,1-Dichloroethe	ene (DCE)		1.90	0.00547	2.000	0	94.8	70	130				
trans-1,2-Dichlo	roethene		1.84	0.0246	2.000	0	92.0	70	130				
cis-1,2-Dichloro	ethene		1.58	0.0245	2.000	0	79.2	70	130				
Trichloroethene	(TCE)		1.78	0.00125	2.000	0	89.0	70	130				
Tetrachloroethe	ne (PCE)		1.73	0.0111	2.000	0	86.5	70	130				
Surr: 4-Bromo	ofluorobenzene		4.20		4.000		105	70	130				
Sample ID: MB	-R82957	SampTyp	e: MBLK			Units: ppbv		Prep Date	e: 3/31/2 0)23	RunNo: 829	957	
Client ID: MB	LKW	Batch ID:	R82957					Analysis Date	e: 3/31/2 0	23	SeqNo: 172	26341	
Analyte			Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride			ND	0.0774									
1,1-Dichloroethe	ene (DCE)		ND	0.00547									
trans-1,2-Dichlo	roethene		ND	0.0246									
cis-1,2-Dichloro	ethene		ND	0.0245									
Trichloroethene	(TCE)		ND	0.00125									
Tetrachloroethe	ne (PCE)		ND	0.0111									
Surr: 4-Bromo	ofluorobenzene		3.53		4.000		88.2	70	130				
Sample ID: 230	3662-005AREP	SampTyp	e: REP			Units: ppbv		Prep Date	e: 4/1/202		RunNo: 829	957	
Client ID: 581	5N-Influent-2023032	Batch ID:	R82957					Analysis Date	e: 4/1/202	23	SeqNo: 172	26306	
Analyte			Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qua
Vinyl chloride			ND	0.310						0		25	
1,1-Dichloroethe	ene (DCE)		ND	0.0219						0		25	
trans-1,2-Dichlo	roethene		ND	0.0985						0		25	
cis-1,2-Dichloro	ethene		0.118	0.0981						0.1401	16.9	25	
Trichloroethene	(TCE)		8.29	0.00500						8.181	1.32	25	
Tetrachloroethe	ne (PCE)		2.02	0.0444						2.002	0.727	25	

Original Page 8 of 12

81.4

70

130

16.00

Date: 4/6/2023



Work Order: 2303662

QC SUMMARY REPORT

CLIENT: Landau Associates
Project: Capital Industries

Volatile Organic Compounds by EPA Method TO-15

Sample ID: 2303662-005AREP SampType: REP Units: ppbv Prep Date: 4/1/2023 RunNo: 82957

Client ID: 5815N-Influent-2023032 Batch ID: R82957 Analysis Date: 4/1/2023 SeqNo: 1726306

Analyte Result RL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Original Page 9 of 12



Sample Log-In Check List

С	lient Name:	LA	Work Order Numb	per: 2303662		
Lo	ogged by:	Matt Langston	Date Received:	3/29/2023	5:19:22 PM	
<u>Cha</u>	in of Cust	<u>ody</u>				
1.	Is Chain of C	ustody complete?	Yes 🗹	No \square	Not Present	
2.	How was the	sample delivered?	Client			
Log	<u>ı In</u>					
	Coolers are p	present?	Yes 🗹	No 🗌	NA \square	
4.	Shipping con	tainer/cooler in good condition?	Yes 🗸	No 🗌		
5.		ls present on shipping container/cooler? nments for Custody Seals not intact)	Yes	No 🗌	Not Present ✓	
6.	Was an atten	npt made to cool the samples?	Yes	No \square	NA 🗹	
7.	Were all item	s received at a temperature of >2°C to 6°C *	Yes	No 🗆	NA 🗹	
8.	Sample(s) in	proper container(s)?	Yes 🗸	No 🗌		
9.	Sufficient sar	mple volume for indicated test(s)?	Yes 🗸	No \square		
10.	Are samples	properly preserved?	Yes 🗸	No \square		
11.	Was preserva	ative added to bottles?	Yes	No 🗸	NA 🗆	
12.	Is there head	Ispace in the VOA vials?	Yes	No \square	NA 🗸	
13.	Did all sampl	es containers arrive in good condition(unbroken)?	Yes 🗸	No \square		
14.	Does paperw	ork match bottle labels?	Yes 🗹	No 🗌		
15.	Are matrices	correctly identified on Chain of Custody?	Yes 🗸	No 🗌		
16.	Is it clear wha	at analyses were requested?	Yes 🗸	No \square		
17.	Were all hold	ling times able to be met?	Yes 🗸	No \square		
Spe	ecial Handl	ing (if applicable)				
-		otified of all discrepancies with this order?	Yes	No \square	NA 🗹	
	Person	Notified: Date				
	By Who	m: Via:	eMail Pho	one Fax [In Person	
	Regardi	ng:				
	Client Ir	nstructions:				
4.0	A -1-12021					

19. Additional remarks:

Item Information

^{*} Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

(MANING)						Air Ch	Chain of	Custody Rec	dv R	eco	ord &	200	ğ	ra	₫	Laboratory Services Agreement	ment
T		3600 Se	3600 Fremont Ave N. Seattle, WA 98103	1 98103	3								ory Pro	ject No	(Intern	Laboratory Project No (Internal): 2303UU:	7
	NEWS AND WAY		Fax: 206-352-7178		Date: 3/2	3/49/25	P Table Appears	Page:	_	9-		Specia	Rema	C F	hy	-	ه.
client: Landau					Project No:	-0	110.011					P	570	TOS	- 77	5 1, L DC	
Address: 207 SC Street					Location: 5	Scattle, WA	43					5	233	12	0(1,2 D(E, 1,1 900, 12my) chimide	Spining
tra	2048					Joshua	Burbach	<i>)</i> .				WE.	*	3	3	* * lower copyring limit	
53 - 28	1870				Reports to (PN	n): Jenis	Reports to (PM): Jenifer Wyn Ku	€				Air sam otherw	ples ar	e disp	sed of	Air samples are disposed of one week after report is submitted to client unless otherwise requested. 349K to Dispose Hold (fees may apply)	client unless may apply)
					Email (PM): Juyakop &	wyskap	is land on the	161	and c	djurgensen e	case		Indusine	W. Yu	(0)	3	
			_							$\exists I$	Analysis		\dashv		Ц		Internal
Sample Name	Canister / Flow Reg Sample Type Serial # (Matrix) *		Container Tir	Expected Fill Time / Flow Rate	Sample Start Date & Time	Field initial Sample Pressure (" Hg)	Sample End Date & Time	Field Final Sample Pressure (" Hg)	Full list VOCs TO15	APH TO15 Siloxanes TO15	Sulfur TO15	Major Gases 3C	Helium 3C Mod VOCs 8260	GX/BTEX 8260		Comments	Final Pressure ("Hg)
35815W-IAB-	17644 FR8-24	6L		8hr	0820	30	3/29/23	h-	*								4
	17640 FR8-35	61		8hr					i				\rightarrow		1		/
DEEDETING -	37554 FR8-37	9L	Г	8hr	3/29/23	-30	1625 3/4/23	5	×								S
- TAI - NS185,	17240 FR8-40 IA	- 6L	Г	8hr	0823 3/29/23	-30	1624 3/29/23	6	*								6
5 5815w - 041 -	17636 FR8-36	6L		8hr	0845	30	3/14/23	×									S
D	=	⋾	IA = Indoor Air	S =	S = Subslab / Soil Gas		= SVE	n 5	D = D	gest	1					Turn-Around Time:	:: Dav
*** Select one: BTEXN & APH	PCE & Breakdown	7	Other, speci	specify in	Other, specify in comments	suic cymius	T = Filter		פייי שומבות וממכ	ē	- icolai pag	200				_	Day
I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to backside of this Agreement.	into this Agreement with	Fremont A	alytical (on behalf	of the Client na	ımed above,	that I have veri	fied Client's	agreemen		each of the terms on the front and	erms (n the	ront a	nd	2 Day specify	ħ
Relinquished (Signature)) Print Je	Joshan Sa	Sorback		Date/Time 3 /24/23	1647	Received (Signat	ture)	/			۸.	Print Name	Jus ,	٢	Date/Time	E S
×	1107						*								1		
COC Air 1 6 - 2 15 21																	Page 1 c

WAY NAME			ŧ	Air Ch	Air Chain of Custody Record	ustod	y R	eco		80	La	90	rat	tory	Laboratory Services Agreement	nent
Fremont	Ont	3600 Fremont Ave N. Seattle, WA 98103 Tel: 206-352-3790	2	2/29/23		Dana	7	.	2	Lab	orator	y Proj	ect No	(Internal):	Laboratory Project No (Internal): 2303ULC 2	
400	WILLSON WALKER TO THE TANK THE WALKER THE TANK T	Fax: 206-352-7178		Project Name: Car A	Hoda strice	Page	y	01.	*) Ř	cial R	emar	Special Remarks:	on his	Only many se for the following:	1,
client: Landau			Project No:	193300	Project No: #533001.010.01					- 7	, 1	. 74	- 0		PC=, TCE, CS 1, 2 DCE, T 1, 2 DCE,	
Address: 2107 5 6 Street			Location: 5	Location: Seathle, UA							Ī	3		the Care Care I		
e, Zip: 1~000 - 1 - 1 + 5	84.2		Collected by:	Sashua	9000000							*	The Co	day Jom	* I lower reports i'mit	
13 - 284 - 4870			Reports to (F	2	or wyahoo	S				Air :	ampl	es are	ested.	sed of one	Air samples are disposed of one week after report is submitted to client unless otherwise requested. X OK to Dispose	ent unless eapply)
Fax:			Email (PM):	Email (PM): 3+341 = usp w	1 ca dian	4000	5	2	Ligation	3.	0	2	in the	201.20	3	
Canister / Flow Reg Serial #	Flow Reg Sample Type (Matrix) *	Expected Fill Container Time / Flow Type ** Rate		Field Initial Sample Pressure (" Hg)	Sample End Date & Time	Field Final Sample Sample Pressure (* Hg)	Select VOCs TO15 ***	APH TO15	Siloxanes TO15 Sulfur TO15 ≧	Sulfur TO15 And Major Gases 3C G	Helium 3C Mod	VOCs 8260	GX/BTEX 8260		Comments	Internal Final Pressure ("Hg)
15615N - Instant _ 5021 10230329 FC-1	21 5	1L nL/min	00 1010 min 3/29/23	30	3/29/23	30 -	*							1.3	Couster us Floorgange Impe differented	6
2																
60					100 mm											
25				•												
5																
* Matrix Codes: AA = Ambient Air OA	OA = Outdoor Air	IA = Indoor Air	S = Subslab / Soil Gas SVE	Cult	= SVE	L=Landfill D=Di	D = D	ges	ter TR = Tedlar Rag	llar R	6				Turn-Around Time:	2.)
BTEXN & APH	PCE & Breakdown	Other, spe	₹												☐ 3 Day ☐ Same Day	₹
I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.	Agreement with Fren	oont Analytical on l	behalf of the Client	amed above,	that I have veri	ied Client's as	greemen	t to eac	hoft	e tern	15 08	the fi	ront a	nd	2 Day specify	
Relinquished (Signature)	Print Name	- Butul	Date/Time	ナトル	3	(aur.)	1			-	10	Ol On	ا کی ء	1	Date/filme The	1659
COC Air 1.6 : 2:15:21					×											Page 1 of



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Landau Associates
Jennifer Wynkoop
155 NE 100th St., Ste 032
Seattle, WA 98125

RE: Capital Industries - PFS Work Order Number: 2308254

August 24, 2023

Attention Jennifer Wynkoop:

Fremont Analytical, Inc. received 4 sample(s) on 8/17/2023 for the analyses presented in the following report.

Volatile Organic Compounds by EPA Method TO-15

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes Project Manager CC: Data

Sierra Mott

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Date: 08/24/2023



Capital Industries - PFS

CLIENT: Landau Associates Work Order Sample Summary

Work Order: 2308254

Project:

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2308254-001	5815N-IA8-20230817	08/17/2023 3:42 PM	08/17/2023 4:20 PM
2308254-002	5815N-IA9-20230817	08/17/2023 3:41 PM	08/17/2023 4:20 PM
2308254-003	5815N-IA1-20230817	08/17/2023 1:10 PM	08/17/2023 4:20 PM
2308254-004	5815-OA1-20230817	08/17/2023 3:38 PM	08/17/2023 4:20 PM



Case Narrative

WO#: **2308254**Date: **8/24/2023**

CLIENT: Landau Associates

Project: Capital Industries - PFS

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Air samples are reported in ppbv and ug/m3.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Standard temperature and pressure assumes 24.45 = (25C and 1 atm).



Qualifiers & Acronyms

WO#: 2308254

Date Reported: 8/24/2023

Qualifiers:

- * Flagged value is not within established control limits
- B Analyte detected in the associated Method Blank
- D Dilution was required
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- I Analyte with an internal standard that does not meet established acceptance criteria
- J Analyte detected below Reporting Limit
- N Tentatively Identified Compound (TIC)
- Q Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S Spike recovery outside accepted recovery limits
- ND Not detected at the Reporting Limit
- R High relative percent difference observed

Acronyms:

%Rec - Percent Recovery

CCB - Continued Calibration Blank

CCV - Continued Calibration Verification

DF - Dilution Factor

DUP - Sample Duplicate

HEM - Hexane Extractable Material

ICV - Initial Calibration Verification

LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate

MCL - Maximum Contaminant Level

MB or MBLANK - Method Blank

MDL - Method Detection Limit

MS/MSD - Matrix Spike / Matrix Spike Duplicate

PDS - Post Digestion Spike

Ref Val - Reference Value

REP - Sample Replicate

RL - Reporting Limit

RPD - Relative Percent Difference

SD - Serial Dilution

SGT - Silica Gel Treatment

SPK - Spike

Surr - Surrogate



WorkOrder: 2308254

Project: Capital Industries - PFS

 Client Sample ID:
 5815N-IA8-20230817
 Date Sampled:
 8/17/2023

 Lab ID:
 2308254-001A
 Date Received
 8/17/2023

Analyte	Concen	tration	Repo Lir	rting nit	Qual	Method	Date/Analy	st
Volatile Organic Compounds b	y EPA Method TO	<u> </u>						
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
1,1-Dichloroethene (DCE)	< 0.0160	< 0.0634	0.0160	0.0634	D	EPA-TO-15	08/24/2023	LB
cis-1,2-Dichloroethene	<0.0800	<0.317	0.0800	0.317	D	EPA-TO-15	08/24/2023	LB
Tetrachloroethene (PCE)	0.0399	0.271	0.0160	0.109	D	EPA-TO-15	08/24/2023	LB
trans-1,2-Dichloroethene	<0.240	< 0.952	0.240	0.952	D	EPA-TO-15	08/24/2023	LB
Trichloroethene (TCE)	0.0735	0.395	0.0160	0.0860	D	EPA-TO-15	08/24/2023	LB
Vinyl chloride	<0.0160	<0.0409	0.0160	0.0409	D	EPA-TO-15	08/24/2023	LB
Surr: 4-Bromofluorobenzene	111 %Rec		70-130		D	EPA-TO-15	08/24/2023	LB



WorkOrder: 2308254

Project: Capital Industries - PFS

 Client Sample ID:
 5815N-IA9-20230817
 Date Sampled:
 8/17/2023

 Lab ID:
 2308254-002A
 Date Received
 8/17/2023

Sample Type: Summa Canister

Analyte	Concen	tration	Repo Lir	rting nit	Qual	Method	Date/Analy	st
Volatile Organic Compounds by I	EPA Method TO	<u>D-15</u>						
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
1,1-Dichloroethene (DCE)	<0.0240	<0.0952	0.0240	0.0952	D	EPA-TO-15	08/24/2023	LB
cis-1,2-Dichloroethene	<0.120	<0.476	0.120	0.476	D	EPA-TO-15	08/24/2023	LB
Tetrachloroethene (PCE)	0.0684	0.464	0.0240	0.163	DI	EPA-TO-15	08/24/2023	LB
trans-1,2-Dichloroethene	< 0.360	<1.43	0.360	1.43	D	EPA-TO-15	08/24/2023	LB
Trichloroethene (TCE)	0.0979	0.526	0.0240	0.129	DI	EPA-TO-15	08/24/2023	LB
Vinyl chloride	<0.0240	<0.0613	0.0240	0.0613	D	EPA-TO-15	08/24/2023	LB
Surr: 4-Bromofluorobenzene	112 %Rec		70-130		D	EPA-TO-15	08/24/2023	LB

NOTES:

I - Internal standards were outside of acceptance criteria. Result is an estimate.



WorkOrder: 2308254

Project: Capital Industries - PFS

 Client Sample ID:
 5815N-IA1-20230817
 Date Sampled:
 8/17/2023

 Lab ID:
 2308254-003A
 Date Received
 8/17/2023

Analyte	Concen	tration	Repo Lir	rting nit	Qual	Method	Date/Analy	st
Volatile Organic Compounds by	EPA Method TO	<u>D-15</u>						
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
1,1-Dichloroethene (DCE)	<0.0100	< 0.0397	0.0100	0.0397	D	EPA-TO-15	08/24/2023	LB
cis-1,2-Dichloroethene	<0.0500	<0.198	0.0500	0.198	D	EPA-TO-15	08/24/2023	LB
Tetrachloroethene (PCE)	0.0474	0.321	0.0100	0.0678	D	EPA-TO-15	08/24/2023	LB
trans-1,2-Dichloroethene	<0.150	<0.595	0.150	0.595	D	EPA-TO-15	08/24/2023	LB
Trichloroethene (TCE)	0.0885	0.476	0.0100	0.0537	D	EPA-TO-15	08/24/2023	LB
Vinyl chloride	0.0235	0.0600	0.0100	0.0256	D	EPA-TO-15	08/24/2023	LB
Surr: 4-Bromofluorobenzene	114 %Rec		70-130		D	EPA-TO-15	08/24/2023	LB



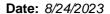
WorkOrder: 2308254

Project: Capital Industries - PFS

 Client Sample ID:
 5815-OA1-20230817
 Date Sampled:
 8/17/2023

 Lab ID:
 2308254-004A
 Date Received
 8/17/2023

Analyte	Concen	tration	Repo Lir	rting nit	Qual	Method	Date/Analy	st
Volatile Organic Compounds by	EPA Method TO	<u>D-15</u>						
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
1,1-Dichloroethene (DCE)	<0.0120	<0.0476	0.0120	0.0476	D	EPA-TO-15	08/24/2023	LB
cis-1,2-Dichloroethene	<0.0600	<0.238	0.0600	0.238	D	EPA-TO-15	08/24/2023	LB
Tetrachloroethene (PCE)	0.0507	0.344	0.0120	0.0814	D	EPA-TO-15	08/24/2023	LB
trans-1,2-Dichloroethene	<0.180	<0.714	0.180	0.714	D	EPA-TO-15	08/24/2023	LB
Trichloroethene (TCE)	<0.0120	<0.0645	0.0120	0.0645	D	EPA-TO-15	08/24/2023	LB
Vinyl chloride	0.0298	0.0762	0.0120	0.0307	D	EPA-TO-15	08/24/2023	LB
Surr: 4-Bromofluorobenzene	112 %Rec		70-130		D	EPA-TO-15	08/24/2023	LB





Work Order: 2308254

Tetrachloroethene (PCE)

Surr: 4-Bromofluorobenzene

0.814

18.3

0.0400

16.00

Project:

QC SUMMARY REPORT

CLIENT: Landau Associates Capital Industries - PFS

Volatile Organic Compounds by EPA Method TO-15

0.8796

7.72

0

25

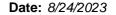
Sample ID: LCS-R86116	SampType:	LCS			Units: ppbv		Prep Da	te: 8/23/2 0)23	RunNo: 86	116	
Client ID: LCSW	Batch ID:	R86116					Analysis Da	te: 8/23/2 0)23	SeqNo: 17 9	97040	
Analyte	R	esult	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride		1.78	0.0100	2.000	0	89.1	70	130				
1,1-Dichloroethene (DCE)		1.87	0.0100	2.000	0	93.7	70	130				
trans-1,2-Dichloroethene		1.95	0.150	2.000	0	97.7	70	130				
cis-1,2-Dichloroethene		2.00	0.0500	2.000	0	100	70	130				
Trichloroethene (TCE)		1.80	0.0100	2.000	0	90.0	70	130				
Tetrachloroethene (PCE)		1.96	0.0100	2.000	0	97.9	70	130				
Surr: 4-Bromofluorobenzene		4.32		4.000		108	70	130				
Sample ID: MB-R86116	SampType:	MBLK			Units: ppbv		Prep Da	te: 8/23/2 0)23	RunNo: 86	116	
Client ID: MBLKW	Batch ID:	R86116					Analysis Da	te: 8/23/2 0)23	SeqNo: 179	97041	
Analyte	R	esult	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride		ND	0.0100									
1,1-Dichloroethene (DCE)		ND	0.0100									
trans-1,2-Dichloroethene		ND	0.150									
cis-1,2-Dichloroethene		ND	0.0500									
Trichloroethene (TCE)		ND	0.0100									
Tetrachloroethene (PCE)		ND	0.0100									
Surr: 4-Bromofluorobenzene		4.22		4.000		105	70	130				
Sample ID: 2308247-003AREP	SampType:	REP			Units: ppbv		Prep Da	te: 8/24/2 ()23	RunNo: 86	116	
Client ID: BATCH	Batch ID:	R86116					Analysis Da	te: 8/24/2 ()23	SeqNo: 17 9	97049	
Analyte	R	esult	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride		ND	0.0400						0		25	
1,1-Dichloroethene (DCE)		ND	0.0400						0		25	
trans-1,2-Dichloroethene	(0.677	0.600						0.7303	7.65	25	
cis-1,2-Dichloroethene	(0.300	0.200						0.3074	2.34	25	
Trichloroethene (TCE)		ND	0.0400						0		25	

Page 9 of 12 Original

115

70

130





Work Order: 2308254

Project:

QC SUMMARY REPORT

CLIENT: Landau Associates

Capital Industries - PFS

Volatile Organic Compounds by EPA Method TO-15

Sample ID: 2308247-003AREP SampType: REP Units: ppbv Prep Date: 8/24/2023 RunNo: 86116

Client ID: **BATCH** Batch ID: **R86116** Analysis Date: **8/24/2023** SeqNo: **1797049**

Analyte Result RL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Original Page 10 of 12



Sample Log-In Check List

Client Name:	LA	Work Order Numb	per: 2308254	
Logged by:	Clare Griggs	Date Received:	8/17/2023	4:20:00 PM
Chain of Cust	ody			
1. Is Chain of C	Custody complete?	Yes 🗸	No 🗌	Not Present
2. How was the	sample delivered?	<u>Client</u>		
<u>Log In</u>				
	s present on shipping container/cooler? ments for Custody Seals not intact)	Yes	No 🗌	Not Present ✓
4. Was an atten	npt made to cool the samples?	Yes	No 🗌	NA 🗹
5. Were all item	s received at a temperature of >2°C to 6°C *	Yes	No 🗆	NA 🗹
6. Sample(s) in	proper container(s)?	Yes 🗸	No 🗌	
7. Sufficient san	nple volume for indicated test(s)?	Yes 🗸	No \square	
8. Are samples	properly preserved?	Yes 🗸	No 🗌	
9. Was preserva	ative added to bottles?	Yes	No 🗸	NA 🗆
10. Is there head	space in the VOA vials?	Yes	No 🗌	NA 🗹
11. Did all sample	es containers arrive in good condition(unbroken)?	Yes 🗸	No 🗌	
12. Does paperw	ork match bottle labels?	Yes 🗸	No 🗌	
13. Are matrices	correctly identified on Chain of Custody?	Yes 🗸	No 🗌	
14. Is it clear wha	at analyses were requested?	Yes 🗸	No 🗌	
15. Were all hold	ing times able to be met?	Yes 🗸	No 🗌	
Special Hand	ling (if applicable)			
16. Was client r	notified of all discrepancies with this order?	Yes \square	No \square	NA 🗹
Person	Notified: Date	:		
By Wh	om: Via:	eMail Pr	none 🗌 Fax	☐ In Person
Regard	ding:			
Client I	Instructions:			
17. Additional re	emarks:			

Item Information

^{*} Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Page 1 of 2

7.000.00.00

3600 Fremont Ave N. -Seattle, WA 98103 Tel: 206-352-3790

Fax: 206-352-7178

Date

00

117/2023

Page:

of:

*** Only analy Ze

for the Rollowing

2208254

Special Remarks

PLE; TLE; (s 1, 2 DLE; +- s 1, 2 DLE; 1, 1 DLE

Final Pressure ("Hg)

W

2

Air Chain of Custody Record & Laboratory Services Agreement

Project Name: Capital Industries - PFS

1933001.030.033



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Landau Associates
Jennifer Wynkoop
155 NE 100th St., Ste 032
Seattle, WA 98125

RE: Capital Industries - PFS Work Order Number: 2308261

August 25, 2023

Attention Jennifer Wynkoop:

Fremont Analytical, Inc. received 3 sample(s) on 8/18/2023 for the analyses presented in the following report.

Volatile Organic Compounds by EPA Method TO-15

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes Project Manager CC: Data

Sierra Mott

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Date: 08/25/2023



CLIENT: Landau Associates Work Order Sample Summary

Project: Capital Industries - PFS

Work Order: 2308261

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2308261-001	5815N-VP1-20230818	08/18/2023 8:21 AM	08/18/2023 9:43 AM
2308261-002	5815N-VP9-20230818	08/18/2023 9:10 AM	08/18/2023 9:43 AM
2308261-003	5815N-VP8-20230818	08/18/2023 8:50 AM	08/18/2023 9:43 AM



Case Narrative

WO#: **2308261**Date: **8/25/2023**

CLIENT: Landau Associates

Project: Capital Industries - PFS

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Air samples are reported in ppbv and ug/m3.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Standard temperature and pressure assumes 24.45 = (25C and 1 atm).



Qualifiers & Acronyms

WO#: 2308261

Date Reported: 8/25/2023

Qualifiers:

- * Flagged value is not within established control limits
- B Analyte detected in the associated Method Blank
- D Dilution was required
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- I Analyte with an internal standard that does not meet established acceptance criteria
- J Analyte detected below Reporting Limit
- N Tentatively Identified Compound (TIC)
- Q Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S Spike recovery outside accepted recovery limits
- ND Not detected at the Reporting Limit
- R High relative percent difference observed

Acronyms:

%Rec - Percent Recovery

CCB - Continued Calibration Blank

CCV - Continued Calibration Verification

DF - Dilution Factor

DUP - Sample Duplicate

HEM - Hexane Extractable Material

ICV - Initial Calibration Verification

LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate

MCL - Maximum Contaminant Level

MB or MBLANK - Method Blank

MDL - Method Detection Limit

MS/MSD - Matrix Spike / Matrix Spike Duplicate

PDS - Post Digestion Spike

Ref Val - Reference Value

REP - Sample Replicate

RL - Reporting Limit

RPD - Relative Percent Difference

SD - Serial Dilution

SGT - Silica Gel Treatment

SPK - Spike

Surr - Surrogate



WorkOrder: 2308261

Project: Capital Industries - PFS

 Client Sample ID:
 5815N-VP1-20230818
 Date Sampled:
 8/18/2023

 Lab ID:
 2308261-001A
 Date Received
 8/18/2023

Analyte	Concen	Concentration		Reporting Limit		Method	Date/Analy	st
Volatile Organic Compounds b	y EPA Method TO	<u> </u>						
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
1,1-Dichloroethene (DCE)	< 0.0400	<0.159	0.0400	0.159		EPA-TO-15	08/25/2023	LE
cis-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	08/25/2023	LE
Tetrachloroethene (PCE)	0.849	5.76	0.0400	0.271		EPA-TO-15	08/25/2023	LE
trans-1,2-Dichloroethene	<0.600	<2.38	0.600	2.38		EPA-TO-15	08/25/2023	LE
Trichloroethene (TCE)	58.8	316	0.0400	0.215		EPA-TO-15	08/25/2023	LE
Vinyl chloride	<0.0400	<0.102	0.0400	0.102		EPA-TO-15	08/25/2023	LE
Surr: 4-Bromofluorobenzene	107 %Rec		70-130			EPA-TO-15	08/25/2023	LE



WorkOrder: 2308261

Project: Capital Industries - PFS

 Client Sample ID:
 5815N-VP9-20230818
 Date Sampled:
 8/18/2023

 Lab ID:
 2308261-002A
 Date Received
 8/18/2023

Analyte	Concentration Reporting Limit		U	Qual	Method	Date/Analy	/st	
Volatile Organic Compounds b	y EPA Method TO	<u> </u>						
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
1,1-Dichloroethene (DCE)	< 0.0400	<0.159	0.0400	0.159		EPA-TO-15	08/25/2023	LB
cis-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	08/25/2023	LB
Tetrachloroethene (PCE)	0.553	3.75	0.0400	0.271		EPA-TO-15	08/25/2023	LB
trans-1,2-Dichloroethene	<0.600	<2.38	0.600	2.38		EPA-TO-15	08/25/2023	LB
Trichloroethene (TCE)	33.5	180	0.0400	0.215		EPA-TO-15	08/25/2023	LB
Vinyl chloride	<0.0400	<0.102	0.0400	0.102		EPA-TO-15	08/25/2023	LB
Surr: 4-Bromofluorobenzene	107 %Rec		70-130			EPA-TO-15	08/25/2023	LB



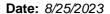
WorkOrder: 2308261

Project: Capital Industries - PFS

 Client Sample ID:
 5815N-VP8-20230818
 Date Sampled:
 8/18/2023

 Lab ID:
 2308261-003A
 Date Received
 8/18/2023

Analyte	Concentration Report Limi		U	Qual	Method	Date/Analy	/st	
Volatile Organic Compounds b	y EPA Method TO	<u> </u>						
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
1,1-Dichloroethene (DCE)	< 0.0400	<0.159	0.0400	0.159		EPA-TO-15	08/25/2023	LB
cis-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	08/25/2023	LB
Tetrachloroethene (PCE)	0.268	1.82	0.0400	0.271		EPA-TO-15	08/25/2023	LB
trans-1,2-Dichloroethene	<0.600	<2.38	0.600	2.38		EPA-TO-15	08/25/2023	LB
Trichloroethene (TCE)	6.13	33.0	0.0400	0.215		EPA-TO-15	08/25/2023	LB
Vinyl chloride	<0.0400	<0.102	0.0400	0.102		EPA-TO-15	08/25/2023	LB
Surr: 4-Bromofluorobenzene	108 %Rec		70-130			EPA-TO-15	08/25/2023	LB





Work Order: 2308261

Surr: 4-Bromofluorobenzene

QC SUMMARY REPORT

0

CLIENT: Landau Associates
Project: Capital Industries - PFS

Volatile Organic Compounds by EPA Method TO-15

Sample ID: LCS-R86141	SampType: LCS			Units: ppbv		Prep Date	e: 8/24/20	23	RunNo: 86 1	141	
Client ID: LCSW	Batch ID: R86141					Analysis Date	e: 8/24/20	23	SeqNo: 179	7678	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qua
Vinyl chloride	16.1	0.0100	20.00	0	80.5	70	130				
1,1-Dichloroethene (DCE)	18.8	0.0100	20.00	0	93.8	70	130				
trans-1,2-Dichloroethene	19.3	0.150	20.00	0	96.3	70	130				
cis-1,2-Dichloroethene	19.2	0.0500	20.00	0	96.2	70	130				
Trichloroethene (TCE)	18.8	0.0100	20.00	0	93.9	70	130				
Tetrachloroethene (PCE)	20.8	0.0100	20.00	0	104	70	130				
Surr: 4-Bromofluorobenzene	4.52		4.000		113	70	130				
Sample ID: MB-R86141	SampType: MBLK			Units: ppbv		Prep Date	e: 8/25/20	23	RunNo: 861	141	
Client ID: MBLKW	Batch ID: R86141					Analysis Date	e: 8/25/2 0	23	SeqNo: 179	7679	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qua
Vinyl chloride	ND	0.0100									
1,1-Dichloroethene (DCE)	ND	0.0100									
trans-1,2-Dichloroethene	ND	0.150									
cis-1,2-Dichloroethene	ND	0.0500									
Trichloroethene (TCE)	ND	0.0100									
Tetrachloroethene (PCE)	ND	0.0100									
Surr: 4-Bromofluorobenzene	4.30		4.000		107	70	130				
Sample ID: 2308261-001AREP	SampType: REP			Units: ppbv		Prep Date	e: 8/25/2 0	23	RunNo: 861	141	
Client ID: 5815N-VP1-20230818	Batch ID: R86141					Analysis Date	e: 8/25/20	23	SeqNo: 17 9	7681	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qua
Vinyl chloride	ND	0.0400						0		25	
	ND	0.0400						0		25	
1,1-Dichloroethene (DCE)	טא	0.0100									
• • •	ND ND	0.600						0		25	
1,1-Dichloroethene (DCE) trans-1,2-Dichloroethene cis-1,2-Dichloroethene								0 0		25 25	
trans-1,2-Dichloroethene	ND	0.600						•	16.2		

Original Page 8 of 11

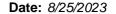
108

70

130

16.00

17.2





Work Order: 2308261

Project:

QC SUMMARY REPORT

CLIENT: Landau Associates

Capital Industries - PFS

Volatile Organic Compounds by EPA Method TO-15

Sample ID: 2308261-001AREP SampType: REP Units: ppbv Prep Date: 8/25/2023 RunNo: 86141

Client ID: 5815N-VP1-20230818 Batch ID: R86141 Analysis Date: 8/25/2023 SeqNo: 1797681

Analyte Result RL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Original Page 9 of 11



Sample Log-In Check List

Client Name:	LA	Work Order Numb	ber: 2308261	
Logged by:	Clare Griggs	Date Received:	8/18/2023	9:43:00 AM
Chain of Cust	ody			
1. Is Chain of C	Custody complete?	Yes 🗸	No 🗌	Not Present
2. How was the	sample delivered?	Client		
<u>Log In</u>				
	s present on shipping container/cooler? ments for Custody Seals not intact)	Yes	No 🗆	Not Present ✓
4. Was an atten	npt made to cool the samples?	Yes	No 🗌	NA 🗹
5. Were all item	s received at a temperature of >2°C to 6°C *	Yes	No 🗆	NA 🗹
6. Sample(s) in	proper container(s)?	Yes 🗸	No 🗌	
7. Sufficient san	nple volume for indicated test(s)?	Yes 🗸	No \square	
8. Are samples	properly preserved?	Yes 🗸	No 🗌	
9. Was preserva	ative added to bottles?	Yes	No 🗸	NA 🗆
10. Is there head	space in the VOA vials?	Yes	No 🗌	NA 🗹
11. Did all sample	es containers arrive in good condition(unbroken)?	Yes 🗸	No 🗌	
12. Does paperw	ork match bottle labels?	Yes 🗸	No 🗌	
13. Are matrices	correctly identified on Chain of Custody?	Yes 🗸	No 🗌	
14. Is it clear wha	at analyses were requested?	Yes 🗸	No 🗌	
15. Were all hold	ing times able to be met?	Yes 🗸	No 🗌	
Special Hand	ling (if applicable)			
16. Was client r	notified of all discrepancies with this order?	Yes	No \square	NA 🗹
Person	Notified: Date	:		
By Wh	om: Via:	eMail Pr	hone Fax	☐ In Person
Regard	ding:			
Client I	Instructions:			
17. Additional re	emarks:			

Item Information

^{*} Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Landau Associates

Jennifer Wynkoop 155 NE 100th St., Ste 032 Seattle, WA 98125

RE: Capital Industries

Work Order Number: 2309212

September 22, 2023

Attention Jennifer Wynkoop:

Fremont Analytical, Inc. received 4 sample(s) on 9/19/2023 for the analyses presented in the following report.

Volatile Organic Compounds by EPA Method TO-15

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

CC: Data Sierra Mott

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Date: 09/22/2023



CLIENT: Landau Associates Work Order Sample Summary

Project: Capital Industries

Work Order: 2309212

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2309212-001	5815N-IA9-20230919	09/19/2023 7:39 AM	09/19/2023 3:27 PM
2309212-002	5815N-IA1-20230919	09/19/2023 7:35 AM	09/19/2023 3:27 PM
2309212-003	5815N-OA1-20230919	09/19/2023 7:31 AM	09/19/2023 3:27 PM
2309212-004	5815N-IA8-20230919	09/19/2023 7:43 AM	09/19/2023 3:27 PM



Case Narrative

WO#: **2309212**Date: **9/22/2023**

CLIENT: Landau Associates
Project: Capital Industries

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Air samples are reported in ppbv and ug/m3.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Standard temperature and pressure assumes 24.45 = (25C and 1 atm).



Qualifiers & Acronyms

WO#: **2309212**

Date Reported: 9/22/2023

Qualifiers:

- * Flagged value is not within established control limits
- B Analyte detected in the associated Method Blank
- D Dilution was required
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- I Analyte with an internal standard that does not meet established acceptance criteria
- J Analyte detected below Reporting Limit
- N Tentatively Identified Compound (TIC)
- Q Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S Spike recovery outside accepted recovery limits
- ND Not detected at the Reporting Limit
- R High relative percent difference observed

Acronyms:

%Rec - Percent Recovery

CCB - Continued Calibration Blank

CCV - Continued Calibration Verification

DF - Dilution Factor

DUP - Sample Duplicate

HEM - Hexane Extractable Material

ICV - Initial Calibration Verification

LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate

MCL - Maximum Contaminant Level

MB or MBLANK - Method Blank

MDL - Method Detection Limit

MS/MSD - Matrix Spike / Matrix Spike Duplicate

PDS - Post Digestion Spike

Ref Val - Reference Value

REP - Sample Replicate

RL - Reporting Limit

RPD - Relative Percent Difference

SD - Serial Dilution

SGT - Silica Gel Treatment

SPK - Spike

Surr - Surrogate



WorkOrder: 2309212

Project: Capital Industries

 Client Sample ID:
 5815N-IA9-20230919
 Date Sampled:
 9/19/2023

 Lab ID:
 2309212-001A
 Date Received:
 9/19/2023

Sample Type: Summa Canister

Analyte	Concentration		Reporti	Reporting Limit		Method	Date/Analy	st
Volatile Organic Compounds by El								
, ,	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
1,1-Dichloroethene (DCE)	<0.0100	<0.0397	0.0100	0.0397		EPA-TO-15	09/20/2023	LB
cis-1,2-Dichloroethene	< 0.0500	<0.198	0.0500	0.198		EPA-TO-15	09/20/2023	LB
Tetrachloroethene (PCE)	0.0322	0.218	0.0100	0.0678		EPA-TO-15	09/20/2023	LB
trans-1,2-Dichloroethene	<0.150	<0.595	0.150	0.595		EPA-TO-15	09/20/2023	LB
Trichloroethene (TCE)	0.125	0.672	0.0100	0.0537		EPA-TO-15	09/20/2023	LB
Vinyl chloride	<0.0100	<0.0256	0.0100	0.0256		EPA-TO-15	09/20/2023	LB
Surr: 4-Bromofluorobenzene	103 %Rec		70-130			EPA-TO-15	09/20/2023	LB

 Client Sample ID:
 5815N-IA1-20230919
 Date Sampled:
 9/19/2023

 Lab ID:
 2309212-002A
 Date Received:
 9/19/2023

Analyte	Concentration		Reporting Limit		Qual	Method	Date/Analy	st
Volatile Organic Compounds by EPA Method TO-15								
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
1,1-Dichloroethene (DCE)	<0.0100	<0.0397	0.0100	0.0397		EPA-TO-15	09/20/2023	LB
cis-1,2-Dichloroethene	< 0.0500	<0.198	0.0500	0.198		EPA-TO-15	09/20/2023	LB
Tetrachloroethene (PCE)	0.0338	0.229	0.0100	0.0678		EPA-TO-15	09/20/2023	LB
trans-1,2-Dichloroethene	<0.150	<0.595	0.150	0.595		EPA-TO-15	09/20/2023	LB
Trichloroethene (TCE)	0.0974	0.524	0.0100	0.0537		EPA-TO-15	09/20/2023	LB
Vinyl chloride	< 0.0100	<0.0256	0.0100	0.0256		EPA-TO-15	09/20/2023	LB
Surr: 4-Bromofluorobenzene	99.1 %Rec		70-130			EPA-TO-15	09/20/2023	LB



WorkOrder: 2309212

Project: Capital Industries

 Client Sample ID:
 5815N-OA1-20230919
 Date Sampled:
 9/19/2023

 Lab ID:
 2309212-003A
 Date Received:
 9/19/2023

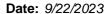
Sample Type: Summa Canister

Analyte	Concen	tration	Reporting Limit		Qual	Method	Date/Analy	st
Volatile Organic Compounds by								
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
1,1-Dichloroethene (DCE)	<0.0100	< 0.0397	0.0100	0.0397		EPA-TO-15	09/20/2023	LB
cis-1,2-Dichloroethene	< 0.0500	<0.198	0.0500	0.198		EPA-TO-15	09/20/2023	LB
Tetrachloroethene (PCE)	0.0102	0.0692	0.0100	0.0678		EPA-TO-15	09/20/2023	LB
trans-1,2-Dichloroethene	<0.150	<0.595	0.150	0.595		EPA-TO-15	09/20/2023	LB
Trichloroethene (TCE)	< 0.0100	< 0.0537	0.0100	0.0537		EPA-TO-15	09/20/2023	LB
Vinyl chloride	<0.0100	<0.0256	0.0100	0.0256		EPA-TO-15	09/20/2023	LB
Surr: 4-Bromofluorobenzene	97.4 %Rec		70-130			EPA-TO-15	09/20/2023	LB

 Client Sample ID:
 5815N-IA8-20230919
 Date Sampled:
 9/19/2023

 Lab ID:
 2309212-004A
 Date Received:
 9/19/2023

Analyte	Concentration		Reporting Limit		Qual	Method Date/Analyst		st
Volatile Organic Compounds by EPA Method TO-15								
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
1,1-Dichloroethene (DCE)	<0.0100	<0.0397	0.0100	0.0397		EPA-TO-15	09/20/2023	LB
cis-1,2-Dichloroethene	<0.0500	<0.198	0.0500	0.198		EPA-TO-15	09/20/2023	LB
Tetrachloroethene (PCE)	0.0315	0.214	0.0100	0.0678		EPA-TO-15	09/20/2023	LB
trans-1,2-Dichloroethene	<0.150	<0.595	0.150	0.595		EPA-TO-15	09/20/2023	LB
Trichloroethene (TCE)	0.0961	0.517	0.0100	0.0537		EPA-TO-15	09/20/2023	LB
Vinyl chloride	<0.0100	<0.0256	0.0100	0.0256		EPA-TO-15	09/20/2023	LB
Surr: 4-Bromofluorobenzene	98.7 %Rec		70-130			EPA-TO-15	09/20/2023	LB





QC SUMMARY REPORT

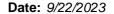
CLIENT: Landau Associates

Project: Capital Industries

Volatile Organic Compounds by EPA Method TO-15

Project: Capital Indu	ustries						O. ga		us by Li F		. •
Sample ID: LCS-R86612	SampType: LCS			Units: ppbv		Prep Dat	te: 9/19/2 0)23	RunNo: 866	612	
Client ID: LCSS	Batch ID: R86612					Analysis Da	te: 9/19/2 0)23	SeqNo: 180	7112	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qua
Vinyl chloride	2.00	0.0100	2.000	0	99.8	70	130				
1,1-Dichloroethene (DCE)	1.87	0.0100	2.000	0	93.5	70	130				
trans-1,2-Dichloroethene	1.85	0.150	2.000	0	92.7	70	130				
cis-1,2-Dichloroethene	1.89	0.0500	2.000	0	94.4	70	130				
Trichloroethene (TCE)	1.95	0.0100	2.000	0	97.7	70	130				
Tetrachloroethene (PCE)	1.94	0.0100	2.000	0	96.8	70	130				
Surr: 4-Bromofluorobenzene	4.16		4.000		104	70	130				
Sample ID: MB-R86612	SampType: MBLK			Units: ppbv		Prep Dat	te: 9/19/2 0)23	RunNo: 866	612	
Client ID: MBLKS	Batch ID: R86612					Analysis Da	te: 9/19/2 0)23	SeqNo: 180	7113	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qua
Vinyl chloride	ND	0.0100									
1,1-Dichloroethene (DCE)	ND	0.0100									
trans-1,2-Dichloroethene	ND	0.150									
cis-1,2-Dichloroethene	ND	0.0500									
Trichloroethene (TCE)	ND	0.0100									
Tetrachloroethene (PCE)	ND	0.0100									
Surr: 4-Bromofluorobenzene	3.74		4.000		93.4	70	130				
Sample ID: 2309180-004AREP	SampType: REP			Units: ppbv		Prep Dat	te: 9/19/2 0)23	RunNo: 866	512	
Client ID: BATCH	Batch ID: R86612					Analysis Da	te: 9/19/2 0)23	SeqNo: 180	7115	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qua
Vinyl chloride	ND	0.0400						0		25	
1,1-Dichloroethene (DCE)	ND	0.0400						0		25	
trans-1,2-Dichloroethene	ND	0.600						0		25	
cis-1,2-Dichloroethene	ND	0.200						0		25	
Trichloroethene (TCE)	ND	0.0400						0		25	
Tetrachloroethene (PCE)	0.180	0.0400						0.1982	9.58	25	
Surr: 4-Bromofluorobenzene	15.4		16.00		96.5	70	130		0		

Original Page 7 of 10





QC SUMMARY REPORT

CLIENT: Landau Associates
Project: Capital Industries

Volatile Organic Compounds by EPA Method TO-15

Sample ID: 2309180-004AREP SampType: REP Units: ppbv Prep Date: 9/19/2023 RunNo: 86612

Client ID: **BATCH** Batch ID: **R86612** Analysis Date: **9/19/2023** SeqNo: **1807115**

Analyte Result RL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Original Page 8 of 10



Sample Log-In Check List

Client Name:	LA	Work Order Num	ber: 2309212	
Logged by:	Morgan Wilson	Date Received:	9/19/2023	3:27:00 PM
Chain of Cus	tody			
1. Is Chain of	Custody complete?	Yes 🗸	No 🗌	Not Present
2. How was th	e sample delivered?	Client		
<u>Log In</u>				
	als present on shipping container/cooler? mments for Custody Seals not intact)	Yes	No 🗆	Not Present 🗹
4. Was an atte	mpt made to cool the samples?	Yes	No 🗌	NA 🗹
5. Were all iten	ns received at a temperature of >2°C to 6°C *	Yes	No 🗌	NA 🗹
6. Sample(s) ir	n proper container(s)?	Yes 🗸	No \square	
7. Sufficient sa	ample volume for indicated test(s)?	Yes 🗸	No \square	
8. Are samples	s properly preserved?	Yes 🗸	No \square	
9. Was preserv	vative added to bottles?	Yes	No 🗸	NA \square
10. Is there head	dspace in the VOA vials?	Yes	No 🗌	NA 🗸
11. Did all samp	oles containers arrive in good condition(unbroken)?	Yes 🗹	No \square	
12. Does paper	work match bottle labels?	Yes 🗸	No 🗌	
13. Are matrices	s correctly identified on Chain of Custody?	Yes 🗹	No 🗌	
14. Is it clear wh	nat analyses were requested?	Yes 🗹	No \square	
15. Were all hole	ding times able to be met?	Yes 🗸	No \square	
Special Hand	dling (if applicable)			
16. Was client	notified of all discrepancies with this order?	Yes	No \square	NA 🗸
Perso	on Notified: Date	e:		
By W	hom: Via:	eMail Pl	hone Fax	In Person
Regai	rding:			
	Instructions:			
17 Additional r	remarks:			

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Item Information



3600 Fremont Ave. N. Seattle, WA 98103 T: (206) 352-3790 F: (206) 352-7178 info@fremontanalytical.com

Landau Associates

Jennifer Wynkoop 155 NE 100th St., Ste 032 Seattle, WA 98125

RE: Capitol Industries

Work Order Number: 2309235

September 27, 2023

Attention Jennifer Wynkoop:

Fremont Analytical, Inc. received 3 sample(s) on 9/20/2023 for the analyses presented in the following report.

Volatile Organic Compounds by EPA Method TO-15

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes Project Manager CC: Data Sierra Mott

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Date: 09/27/2023



CLIENT: Landau Associates Work Order Sample Summary

Project: Capitol Industries

Work Order: 2309235

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2309235-001	5815N-VP8-20230920	09/20/2023 10:00 AM	09/20/2023 11:18 AM
2309235-002	5815N-VP9-20230920	09/20/2023 10:21 AM	09/20/2023 11:18 AM
2309235-003	5815N-VP1-20230920	09/20/2023 10:30 AM	09/20/2023 11:18 AM



Case Narrative

WO#: **2309235**Date: **9/27/2023**

CLIENT: Landau Associates
Project: Capitol Industries

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Air samples are reported in ppbv and ug/m3.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Standard temperature and pressure assumes 24.45 = (25C and 1 atm).



Qualifiers & Acronyms

WO#: **2309235**

Date Reported: 9/27/2023

Qualifiers:

- * Flagged value is not within established control limits
- B Analyte detected in the associated Method Blank
- D Dilution was required
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- I Analyte with an internal standard that does not meet established acceptance criteria
- J Analyte detected below Reporting Limit
- N Tentatively Identified Compound (TIC)
- Q Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S Spike recovery outside accepted recovery limits
- ND Not detected at the Reporting Limit
- R High relative percent difference observed

Acronyms:

%Rec - Percent Recovery

CCB - Continued Calibration Blank

CCV - Continued Calibration Verification

DF - Dilution Factor

DUP - Sample Duplicate

HEM - Hexane Extractable Material

ICV - Initial Calibration Verification

LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate

MCL - Maximum Contaminant Level

MB or MBLANK - Method Blank

MDL - Method Detection Limit

MS/MSD - Matrix Spike / Matrix Spike Duplicate

PDS - Post Digestion Spike

Ref Val - Reference Value

REP - Sample Replicate

RL - Reporting Limit

RPD - Relative Percent Difference

SD - Serial Dilution

SGT - Silica Gel Treatment

SPK - Spike

Surr - Surrogate



WorkOrder: 2309235

Project: Capitol Industries

 Client Sample ID:
 5815N-VP8-20230920
 Date Sampled:
 9/20/2023

 Lab ID:
 2309235-001A
 Date Received:
 9/20/2023

Analyte	Concen	tration	Reportii	ng Limit	Qual	Method	Date/Analy	st
Volatile Organic Compounds by	EPA Method TO) <u>-15</u>						
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
1,1-Dichloroethene (DCE)	<0.0400	<0.159	0.0400	0.159		EPA-TO-15	09/22/2023	LB
cis-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	09/22/2023	LB
Tetrachloroethene (PCE)	0.135	0.914	0.0400	0.271		EPA-TO-15	09/22/2023	LB
trans-1,2-Dichloroethene	<0.600	<2.38	0.600	2.38		EPA-TO-15	09/22/2023	LB
Trichloroethene (TCE)	11.5	61.9	0.0400	0.215		EPA-TO-15	09/22/2023	LB
Vinyl chloride	<0.0400	<0.102	0.0400	0.102		EPA-TO-15	09/22/2023	LB
Surr: 4-Bromofluorobenzene	99.7 %Rec		70-130			EPA-TO-15	09/22/2023	LB



WorkOrder: 2309235

Project: Capitol Industries

 Client Sample ID:
 5815N-VP9-20230920
 Date Sampled:
 9/20/2023

 Lab ID:
 2309235-002A
 Date Received:
 9/20/2023

Analyte	Concen	tration	Reportii	ng Limit	Qual	Method	Date/Analy	st
Volatile Organic Compounds by	EPA Method TO	<u>D-15</u>						
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
1,1-Dichloroethene (DCE)	<0.0400	<0.159	0.0400	0.159		EPA-TO-15	09/22/2023	LB
cis-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	09/22/2023	LB
Tetrachloroethene (PCE)	0.409	2.77	0.0400	0.271		EPA-TO-15	09/22/2023	LB
trans-1,2-Dichloroethene	<0.600	<2.38	0.600	2.38		EPA-TO-15	09/22/2023	LB
Trichloroethene (TCE)	27.7	149	0.0400	0.215		EPA-TO-15	09/22/2023	LB
Vinyl chloride	<0.0400	<0.102	0.0400	0.102		EPA-TO-15	09/22/2023	LB
Surr: 4-Bromofluorobenzene	100 %Rec		70-130			EPA-TO-15	09/22/2023	LB



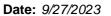
WorkOrder: 2309235

Project: Capitol Industries

 Client Sample ID:
 5815N-VP1-20230920
 Date Sampled:
 9/20/2023

 Lab ID:
 2309235-003A
 Date Received:
 9/20/2023

Analyte	Concen	tration	Reporti	ng Limit	Qual	Method	Date/Analy	rst
Volatile Organic Compounds by	EPA Method TC	<u>)-15</u>						
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
1,1-Dichloroethene (DCE)	<0.0400	<0.159	0.0400	0.159		EPA-TO-15	09/22/2023	LB
cis-1,2-Dichloroethene	0.604	2.40	0.200	0.793		EPA-TO-15	09/22/2023	LB
Tetrachloroethene (PCE)	14.4	97.5	0.0400	0.271		EPA-TO-15	09/22/2023	LB
trans-1,2-Dichloroethene	< 0.600	<2.38	0.600	2.38		EPA-TO-15	09/22/2023	LB
Trichloroethene (TCE)	365	1,960	0.400	2.15		EPA-TO-15	09/22/2023	LB
Vinyl chloride	<0.0400	<0.102	0.0400	0.102		EPA-TO-15	09/22/2023	LB
Surr: 4-Bromofluorobenzene	98.3 %Rec		70-130			EPA-TO-15	09/22/2023	LB





QC SUMMARY REPORT

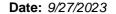
CLIENT: Landau Associates

Project: Capitol Industries

Volatile Organic Compounds by EPA Method TO-15

Project: Capitol Indus	stries							o oompoun			
Sample ID: LCS-R86752	SampType: LCS			Units: ppbv		Prep Da	te: 9/21/2 0)23	RunNo: 867	752	
Client ID: LCSW	Batch ID: R86752					Analysis Da	te: 9/21/2 0)23	SeqNo: 181	10054	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	2.07	0.0100	2.000	0	104	70	130				
1,1-Dichloroethene (DCE)	1.91	0.0100	2.000	0	95.6	70	130				
trans-1,2-Dichloroethene	1.88	0.150	2.000	0	94.2	70	130				
cis-1,2-Dichloroethene	1.91	0.0500	2.000	0	95.7	70	130				
Trichloroethene (TCE)	1.89	0.0100	2.000	0	94.3	70	130				
Tetrachloroethene (PCE)	1.89	0.0100	2.000	0	94.3	70	130				
Surr: 4-Bromofluorobenzene	4.08		4.000		102	70	130				
Sample ID: MB-R86752	SampType: MBLK			Units: ppbv		Prep Da	te: 9/22/20)23	RunNo: 867	752	
Client ID: MBLKW	Batch ID: R86752					Analysis Da	te: 9/22/20)23	SeqNo: 181	10055	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.0100									
1,1-Dichloroethene (DCE)	ND	0.0100									
trans-1,2-Dichloroethene	ND	0.150									
cis-1,2-Dichloroethene	ND	0.0500									
Trichloroethene (TCE)	ND	0.0100									
Tetrachloroethene (PCE)	ND	0.0100									
Surr: 4-Bromofluorobenzene	3.71		4.000		92.8	70	130				
Sample ID: 2309235-001AREP	SampType: REP			Units: ppbv		Prep Da	te: 9/22/20)23	RunNo: 867	752	
Client ID: 5815N-VP8-20230920	Batch ID: R86752					Analysis Da	te: 9/22/20)23	SeqNo: 181	10058	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC			RPD Ref Val	%RPD		Qual
Vinyl chloride	ND	0.0400						0		25	
1,1-Dichloroethene (DCE)	ND	0.0400						0		25	
trans-1,2-Dichloroethene	ND	0.600						0		25	
cis-1,2-Dichloroethene	ND	0.200						0		25	
Trichloroethene (TCE)	11.8	0.0400						11.53	2.70	25	
Tetrachloroethene (PCE)	0.137	0.0400						0.1348	1.91	25	
Surr: 4-Bromofluorobenzene	15.8	3.0.00	16.00		98.6	70	130	3310	0	_0	

Original Page 8 of 11





Project:

QC SUMMARY REPORT

CLIENT: Landau Associates

Capitol Industries

Volatile Organic Compounds by EPA Method TO-15

Client ID: 5815N-VP8-20230920 Batch ID: R86752 Analysis Date: 9/22/2023 SeqNo: 1810058

Analyte Result RL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Original Page 9 of 11



Sample Log-In Check List

Client Name:	LA	Work Order Numl	ber: 2309235	
Logged by:	Brianna Barnes	Date Received:	9/20/2023	11:18:00 AM
Chain of Cust	ody			
1. Is Chain of C	Custody complete?	Yes 🗸	No 🗌	Not Present
2. How was the	sample delivered?	Client		
<u>Log In</u>				
	s present on shipping container/cooler? ments for Custody Seals not intact)	Yes	No 🗌	Not Present ✓
4. Was an atten	npt made to cool the samples?	Yes	No 🗆	NA 🗹
5. Were all item	s received at a temperature of >2°C to 6°C *	Yes	No 🗌	NA 🗸
6. Sample(s) in	proper container(s)?	Yes 🗸	No 🗌	
7. Sufficient san	nple volume for indicated test(s)?	Yes 🗹	No \square	
8. Are samples	properly preserved?	Yes 🗹	No \square	
9. Was preserva	ative added to bottles?	Yes	No 🗸	NA 🗆
10. Is there head	space in the VOA vials?	Yes	No 🗆	NA 🗹
11. Did all sample	es containers arrive in good condition(unbroken)?	Yes 🗹	No 🗌	
12. Does paperw	ork match bottle labels?	Yes 🗸	No 🗌	
13. Are matrices	correctly identified on Chain of Custody?	Yes 🗸	No 🗌	
14. Is it clear wha	at analyses were requested?	Yes 🗹	No 🗌	
15. Were all hold	ing times able to be met?	Yes 🗸	No 🗌	
Special Hand	ling (if applicable)			
16. Was client r	notified of all discrepancies with this order?	Yes	No 🗌	NA 🗹
Person	Notified: Date	e:		
By Wh	om: Via:	eMail Pl	hone Fax	☐ In Person
Regard	ding:			
Client I	Instructions:			
17 Additional re	emarks:			

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Item Information

WENT RESO				_	Air Ch	Air Chain of Custody Record & Laboratory Services Agreement	Custo	₹	æ	6	ᇗ	œ	5	ğ	9	at	ory S	ervice	S A	greer	nent
Fremont		00 Frem Seattle, Tel: 20	3600 Fremont Ave N Seattle, WA 98103 Tel: 206-352-3790	9/20/27	72/0			2			N	10	borat	oy P	oject	No (II	Laboratory Project No (Internal):	2309235	92	3	
Amalytical	North M	Fax: 20		Project Name:	Cap't	Control industries	Page		95			2 5	Special Remarks:	Rem	arks			3			4
Client: LANDAU				Project No:	14336	143361-630 631	:31					77	5	-1 >	5	7 -2	2 P. C.	PCE, TCE is in och tems in a die	10 1	ל בוום ד	
Address: 21075651				Location: 5	ALL + 1+tog	AM						_	-	5	-		yl chi	1,1 OCE, Vinyl chloride			
City, State, Zip: Town WA 98402				Collected by:	308																
2xpt-pf2-67				Reports to (PM): Jennifor Wyn Kap	W): Jeani	VAM A	L	Sier-not	3	=		9 A	sam	se re	re di	spose	ed of one w	Air samples are disposed of one week after report is submitted to client unless otherwise requested. MOK to Dispose in Hold (fees may apply)	Day se	omitted to cli loid (fees ma	y apply)
Fax:				Email (PM):	dutue	duta el lendonine.	he ion	-	Jugaen	20	5	DE I	3	daile	3	con.	,	Smott el	leadad	during . com	3
Canister / Flow Reg Sample Type Sample Name Serial # (Matrix) *		Container Type **	Expected Fill Time / Flow Rate	Sample Start Date & Time	Field Initial Sample Pressure (" Hg)	Sample End Date & Time	Field Final Sample Pressure (* Hg)	Full list VOCs TO15 Select VOCs TO15 ***	APH TO15	Siloxanes TO15	Sulfur TO15	Major Gases 3C	Helium 3C Mod	VOCs 8260		GX/BTEX 8260		Comments	ents		Internol Final Pressure ("Hg)
11414 - 844.NS185	2	Ė	5MIN	5.560 Sept 6	-36	9/20/23	5	X	/-								S	office			4
2015 - 15 dr - N5135 2	5	ŕ	5MIN	4/20/23 1017	-30	1881 CT(00/16	ئد	×			-			-			Sh	hicolms			1
2015.11-012 - 11014	5	ŕ	5MIN	1030	-30	81413	5-	×		-	-				-		5	Shup			4
10995		F			(
* Matrix Codes: AA = Ambient Air OA = Outdoor Air ** Container Codes: BV = 1 Liter Bottle Vac 6L = 6L Can	IA :	IA = Indoor Air 1L = 1L Canister	S=	S = Subslab / Soil Gas SVE CYL = High Pressure Cylinder	e Cyli	= SVE F = Filte	L = Landfill D = Di	D =	D = Digester Tube TB	ster TB =		Tedlar Bag	age					Tu	m-Aro	Turn-Around Time: ard Next Day	
*** Select one: BTEXN & APH PCE & Breakdown Souther, specify in comments I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.	reakdown nt with Fremont	Analytic	Other, specify in comments Analytical on behalf of the Clien	comments of the Client na	amed above,	that I have ver	ified Client's:	agreem	ent to	each	oft	e e	15 01	the	fron	and .		3 Day		Same Day	*
Relinquished (Signature) x Relinquished (Signature)	Sistem Burbach	buch	lb P	Date/Time	hill	Received (Signature)	Nature)		1			9/20/23	0 1 2	Print Name	50 0	W		Date	Date/Time	0.	



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Landau Associates

Jennifer Wynkoop 130 2nd Ave South Edmonds, Washington 98020

RE: Capital Industries

Work Order Number: 2312555

January 04, 2024

Attention Jennifer Wynkoop:

Fremont Analytical, Inc. received 4 sample(s) on 12/27/2023 for the analyses presented in the following report.

Volatile Organic Compounds by EPA Method TO-15

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes Project Manager CC: Sierra Mott

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910



Date: 01/04/2024

CLIENT: Landau Associates Work Order Sample Summary

Project: Capital Industries

Work Order: 2312555

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2312555-001	5815N-IA9-20231227	12/27/2023 8:19 AM	12/27/2023 3:51 PM
2312555-002	5815N-IA1-20231227	12/27/2023 8:20 AM	12/27/2023 3:51 PM
2312555-003	5815N-OA1-20231227	12/27/2023 8:21 AM	12/27/2023 3:51 PM
2312555-004	5815N-IA8-20231227	12/27/2023 8:18 AM	12/27/2023 3:51 PM



Case Narrative

WO#: **2312555**Date: **1/4/2024**

CLIENT: Landau Associates
Project: Capital Industries

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Air samples are reported in ppbv and ug/m3.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Standard temperature and pressure assumes 24.45 = (25C and 1 atm).

Original Page 3 of 8



Qualifiers & Acronyms

WO#: **2312555**

Date Reported: 1/4/2024

Qualifiers:

- * Flagged value is not within established control limits
- B Analyte detected in the associated Method Blank
- D Dilution was required
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- I Analyte with an internal standard that does not meet established acceptance criteria
- J Analyte detected below Reporting Limit
- N Tentatively Identified Compound (TIC)
- Q Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S Spike recovery outside accepted recovery limits
- ND Not detected at the Reporting Limit
- R High relative percent difference observed

Acronyms:

%Rec - Percent Recovery

CCB - Continued Calibration Blank

CCV - Continued Calibration Verification

DF - Dilution Factor

DUP - Sample Duplicate

HEM - Hexane Extractable Material

ICV - Initial Calibration Verification

LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate

MCL - Maximum Contaminant Level

MB or MBLANK - Method Blank

MDL - Method Detection Limit

MS/MSD - Matrix Spike / Matrix Spike Duplicate

PDS - Post Digestion Spike

Ref Val - Reference Value

REP - Sample Replicate

RL - Reporting Limit

RPD - Relative Percent Difference

SD - Serial Dilution

SGT - Silica Gel Treatment

SPK - Spike

Surr - Surrogate



WorkOrder: 2312555

Project: Capital Industries

 Client Sample ID:
 5815N-IA9-20231227
 Date Sampled:
 12/27/2023

 Lab ID:
 2312555-001A
 Date Received:
 12/27/2023

Sample Type: Summa Canister

Analyte	Concen	tration	Reportii	ng Limit	Qual	Method	Date/Analy	st
Volatile Organic Compounds by	EPA Method TO	<u>-15</u>						
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
1,1-Dichloroethene (DCE)	< 0.0100	<0.0397	0.0100	0.0397		EPA-TO-15	12/29/2023	LB
cis-1,2-Dichloroethene	< 0.0500	<0.198	0.0500	0.198		EPA-TO-15	12/29/2023	LB
Tetrachloroethene (PCE)	0.0360	0.245	0.0100	0.0678		EPA-TO-15	12/29/2023	LB
trans-1,2-Dichloroethene	<0.150	<0.595	0.150	0.595		EPA-TO-15	12/29/2023	LB
Trichloroethene (TCE)	0.0345	0.185	0.0100	0.0537		EPA-TO-15	12/29/2023	LB
Vinyl chloride	< 0.0100	<0.0256	0.0100	0.0256		EPA-TO-15	12/29/2023	LB
Surr: 4-Bromofluorobenzene	104 %Rec		70-130			EPA-TO-15	12/29/2023	LB

 Client Sample ID:
 5815N-IA1-20231227
 Date Sampled:
 12/27/2023

 Lab ID:
 2312555-002A
 Date Received:
 12/27/2023

Sample Type: Summa Canister

Analyte	Concen	tration	Reportii	ng Limit	Qual	Method	Date/Analy	st
Volatile Organic Compounds by EF	PA Method TO	<u>-15</u>						
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
1,1-Dichloroethene (DCE)	<0.0100	<0.0397	0.0100	0.0397		EPA-TO-15	12/29/2023	LB
cis-1,2-Dichloroethene	<0.0500	<0.198	0.0500	0.198		EPA-TO-15	12/29/2023	LB
Tetrachloroethene (PCE)	0.0313	0.212	0.0100	0.0678		EPA-TO-15	12/29/2023	LB
trans-1,2-Dichloroethene	<0.150	<0.595	0.150	0.595		EPA-TO-15	12/29/2023	LB
Trichloroethene (TCE)	0.0330	0.177	0.0100	0.0537		EPA-TO-15	12/29/2023	LB
Vinyl chloride	<0.0100	<0.0256	0.0100	0.0256		EPA-TO-15	12/29/2023	LB
Surr: 4-Bromofluorobenzene	104 %Rec		70-130			EPA-TO-15	12/29/2023	LB

Original Page 5 of 8



WorkOrder: 2312555

Project: Capital Industries

 Client Sample ID:
 5815N-OA1-20231227
 Date Sampled:
 12/27/2023

 Lab ID:
 2312555-003A
 Date Received:
 12/27/2023

Sample Type: Summa Canister

Analyte	Concen	tration	Reporti	ng Limit	Qual	Method	Date/Analy	st
Volatile Organic Compounds by Ef	PA Method TO	<u>-15</u>						
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
1,1-Dichloroethene (DCE)	<0.0100	<0.0397	0.0100	0.0397		EPA-TO-15	12/30/2023	LB
cis-1,2-Dichloroethene	<0.0500	<0.198	0.0500	0.198		EPA-TO-15	12/30/2023	LB
Tetrachloroethene (PCE)	<0.0100	<0.0678	0.0100	0.0678		EPA-TO-15	12/30/2023	LB
trans-1,2-Dichloroethene	<0.150	<0.595	0.150	0.595		EPA-TO-15	12/30/2023	LB
Trichloroethene (TCE)	<0.0100	<0.0537	0.0100	0.0537		EPA-TO-15	12/30/2023	LB
Vinyl chloride	<0.0100	<0.0256	0.0100	0.0256		EPA-TO-15	12/30/2023	LB
Surr: 4-Bromofluorobenzene	102 %Rec		70-130			EPA-TO-15	12/30/2023	LB

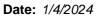
 Client Sample ID:
 5815N-IA8-20231227
 Date Sampled:
 12/27/2023

 Lab ID:
 2312555-004A
 Date Received:
 12/27/2023

Sample Type: Summa Canister

Analyte	Concen	tration	Reportir	ng Limit	Qual	Method	Date/Analy	st
Volatile Organic Compounds by E	PA Method TO	<u>-15</u>						
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
1,1-Dichloroethene (DCE)	<0.0100	<0.0397	0.0100	0.0397		EPA-TO-15	12/30/2023	LB
cis-1,2-Dichloroethene	< 0.0500	<0.198	0.0500	0.198		EPA-TO-15	12/30/2023	LB
Tetrachloroethene (PCE)	0.0381	0.258	0.0100	0.0678		EPA-TO-15	12/30/2023	LB
trans-1,2-Dichloroethene	<0.150	<0.595	0.150	0.595		EPA-TO-15	12/30/2023	LB
Trichloroethene (TCE)	0.0355	0.191	0.0100	0.0537		EPA-TO-15	12/30/2023	LB
Vinyl chloride	< 0.0100	<0.0256	0.0100	0.0256		EPA-TO-15	12/30/2023	LB
Surr: 4-Bromofluorobenzene	109 %Rec		70-130			EPA-TO-15	12/30/2023	LB

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QC SUMMARY REPORT

CLIENT: Landau Associates

Project: Capital Industries

Volatile Organic Compounds by EPA Method TO-15

Project: Capital Indu	ustries						J. J.		us by EFF		
Sample ID: LCS-R88683	SampType: LCS			Units: ppbv		Prep Date	: 12/29/2	2023	RunNo: 886	83	
Client ID: LCSW	Batch ID: R88683					Analysis Date	: 12/29/2	2023	SeqNo: 185	2539	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	1.96	0.0100	2.000	0	97.9	70	130				
1,1-Dichloroethene (DCE)	1.87	0.0100	2.000	0	93.5	70	130				
trans-1,2-Dichloroethene	1.93	0.150	2.000	0	96.5	70	130				
cis-1,2-Dichloroethene	1.81	0.0500	2.000	0	90.7	70	130				
Trichloroethene (TCE)	1.89	0.0100	2.000	0	94.3	70	130				
Tetrachloroethene (PCE)	1.87	0.0100	2.000	0	93.3	70	130				
Surr: 4-Bromofluorobenzene	4.15		4.000		104	70	130				
Sample ID: MB-R88683	SampType: MBLK			Units: ppbv		Prep Date	e: 12/29/2	2023	RunNo: 886	683	
Client ID: MBLKW	Batch ID: R88683					Analysis Date	e: 12/29/2	2023	SeqNo: 185	52540	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.0100									
1,1-Dichloroethene (DCE)	ND	0.0100									
trans-1,2-Dichloroethene	ND	0.150									
cis-1,2-Dichloroethene	ND	0.0500									
Trichloroethene (TCE)	ND	0.0100									
Tetrachloroethene (PCE)	ND	0.0100									
Surr: 4-Bromofluorobenzene	3.77		4.000		94.1	70	130				
Sample ID: 2312530-001AREP	SampType: REP			Units: ppbv		Prep Date	: 12/30/2	2023	RunNo: 886	683	
Client ID: BATCH	Batch ID: R88683					Analysis Date	: 12/30/2	2023	SeqNo: 185	2546	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.0400						0		25	I
1,1-Dichloroethene (DCE)	ND	0.0400						0		25	1
trans-1,2-Dichloroethene	ND	0.600						0		25	- 1
cis-1,2-Dichloroethene	ND	0.200						0		25	I
Trichloroethene (TCE)	ND	0.0400						0		25	I
Tetrachloroethene (PCE)	0.946	0.0400						0.9545	0.939	25	1
Surr: 4-Bromofluorobenzene	16.3		16.00		102	70	130		0		1

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QC SUMMARY REPORT

CLIENT: Landau Associates

Capital Industries

Volatile Organic Compounds by EPA Method TO-15

Client ID: **BATCH** Batch ID: **R88683** Analysis Date: **12/30/2023** SeqNo: **1852546**

Analyte Result RL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

NOTES:

Project:

I - Internal standards were outside of acceptance criteria. Re-analysis and/or matrix spike samples yielded the same result indicating a possible matrix effect.

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Sample Log-In Check List

Client Name:	LA	Work Order Numb	per: 2312555	
Logged by:	Morgan Wilson	Date Received:	12/27/202	3 3:51:00 PM
Chain of Cus	tody			
1. Is Chain of	Custody complete?	Yes 🗸	No \square	Not Present
2. How was th	e sample delivered?	<u>Client</u>		
<u>Log In</u>				
	als present on shipping container/cooler? mments for Custody Seals not intact)	Yes	No \square	Not Present ✓
4. Was an atte	mpt made to cool the samples?	Yes	No 🗌	NA 🔽
5. Were all iter	ns received at a temperature of >2°C to 6°C *	Yes	No 🗌	NA 🗹
6. Sample(s) ir	n proper container(s)?	Yes 🗸	No 🗌	
7. Sufficient sa	ample volume for indicated test(s)?	Yes 🗸	No \square	
8. Are samples	s properly preserved?	Yes 🗸	No \square	
9. Was preserv	vative added to bottles?	Yes	No 🗸	NA \square
10. Is there head	dspace in the VOA vials?	Yes	No 🗌	NA 🗸
11. Did all samp	oles containers arrive in good condition(unbroken)?	Yes 🗹	No \square	
12. Does paper	work match bottle labels?	Yes 🗹	No 🗌	
13. Are matrices	s correctly identified on Chain of Custody?	Yes 🗸	No 🗌	
14. Is it clear wh	nat analyses were requested?	Yes 🗹	No 🗌	
15. Were all hole be met?	d times (except field parameters, pH e.g.) able to	Yes 🗸	No 🗌	
Special Hand	dling (if applicable)			
16. Was client	notified of all discrepancies with this order?	Yes	No 🗌	NA 🗹
Perso	on Notified: Date	e: [
By Wi	hom: Via:	eMail Pr	none 🗌 Fax	In Person
Regai	rding:			
Client	Instructions:			
17. Additional	remarks:			

<u>Item Information</u>

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Original Page 9 of 8

City, State, Zip: Client: LANDAU Telephone: 253 - 579 - 7422 Address: 2107 5 C St * Matrix Codes: backside of this Agreement. represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and ** Container Codes: *** Select one: SRISN-TA1 5815N-IA9 inquished (Signature) 2/4 -84E- NSIBS -1848ished (Signature) -815N-041-20231227 20231227 20231227 20231227 Tarcoma WA AA = Ambient Air BTEXN & APH BV = 1 Liter Bottle Vac MANUAL MA Canister / Flow Reg Serial # FR8-14 18407 FR8-36 FR8-25 15421 17640 17649 FV-1 13968 13969 PCE & Breakdown OA = Outdoor Air 6L = 6L Canister Sample Type (Matrix) * H H H OP Print Name Soshun Bur and rint Name V IA = Indoor Air 3600 Fremont Ave N. Seattle, WA 98103 Container Type ** Tel: 206-352-3790 Fax: 206-352-7178 Other, specify in comments 1L = 1L Canister 6 6 6 9 6 Expected Fill Time / Flow Rate 8HR 8HR 8HR SHR S = Subslab / Soil Gas 12/23/0 1551 Date: Collected by: ゴワウ Project No: 1933061.630.033 Project Name: (Cop } -) Industrics CYL = High Pressure Cylinder 5x/4x x1 Email (PM): dut @ landanine . com Reports to (PM): John, Mr Wyn Kay : 5 8112 Location: Se-Itle, UA Sample Start Date & Time 24/11/ 12/11/12 13/11/63 6819 1480 8180 0830 12/21/2023 Air Chain of Custody Record & Laboratory Services Agreement 130 Field Initia Sample Pressure (" Hg) 08. 30 30 SVE = SVE 12/12/23 Sample End Date & Time צבורנונו 12/12/23 £481 CPLETE SIO Réceived (Signature 1521 S F = Filter L = Landfill Field Final Sample Pressure (" Hg) 7 5 s wyn Krop & landowing . Gor 9 S = Sorbent Tube Page: Full list VOCs TO15 110m D = Digester 1 X 1 Select VOCs TO15 *** of: APH TO15 TB = Tedlar Bag Siloxanes TO15 2 Sulfur TO15 Air samples are disposed of one week after report is submitted to client unless otherwise requested.

All OK to Dispose Hold (fees may apply) Laboratory Project No (Internal): 23/2555 ** anly analyze to the following 1, 1 DZE, v.yl chierde PLE, TLE, L.ST, 2DCE, TIME 1, 20615, smott @ Imadmine . com Helium 3C Mod VOCs 8260 GX/BTEX 8260 inital on inite -30 Office Crooktuce Shop 2 Day ☐ 3 Day Standard Standard 62160 Comments Turn-Around Time: 1 Next Day Same Day Final Pressure ("Hg) 5, N

COC Air 1 6 - 2.15.21

Page 1 of 2



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Landau Associates

Jennifer Wynkoop 155 NE 100th St., Ste 032 Seattle, WA 98125

RE: LTH Industries

Work Order Number: 2312566

January 05, 2024

Attention Jennifer Wynkoop:

Fremont Analytical, Inc. received 3 sample(s) on 12/28/2023 for the analyses presented in the following report.

Volatile Organic Compounds by EPA Method TO-15

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes Project Manager CC: Data

Sierra Mott

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Date: 01/05/2024



CLIENT: Landau Associates Work Order Sample Summary

Project: LTH Industries Work Order: 2312566

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2312566-001	5815N-VP1-20231228	12/28/2023 10:36 AM	12/28/2023 11:00 AM
2312566-002	5815N-VP8-20231228	12/28/2023 10:11 AM	12/28/2023 11:00 AM
2312566-003	5815N-VP9-20231228	12/28/2023 10:22 AM	12/28/2023 11:00 AM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned



Case Narrative

WO#: **2312566**Date: **1/5/2024**

CLIENT: Landau Associates
Project: LTH Industries

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Air samples are reported in ppbv and ug/m3.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Standard temperature and pressure assumes 24.45 = (25C and 1 atm).



Qualifiers & Acronyms

WO#: **2312566**

Date Reported: 1/5/2024

Qualifiers:

- * Flagged value is not within established control limits
- B Analyte detected in the associated Method Blank
- D Dilution was required
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- I Analyte with an internal standard that does not meet established acceptance criteria
- J Analyte detected below Reporting Limit
- N Tentatively Identified Compound (TIC)
- Q Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S Spike recovery outside accepted recovery limits
- ND Not detected at the Reporting Limit
- R High relative percent difference observed

Acronyms:

%Rec - Percent Recovery

CCB - Continued Calibration Blank

CCV - Continued Calibration Verification

DF - Dilution Factor

DUP - Sample Duplicate

HEM - Hexane Extractable Material

ICV - Initial Calibration Verification

LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate

MCL - Maximum Contaminant Level

MB or MBLANK - Method Blank

MDL - Method Detection Limit

MS/MSD - Matrix Spike / Matrix Spike Duplicate

PDS - Post Digestion Spike

Ref Val - Reference Value

REP - Sample Replicate

RL - Reporting Limit

RPD - Relative Percent Difference

SD - Serial Dilution

SGT - Silica Gel Treatment

SPK - Spike

Surr - Surrogate



WorkOrder: 2312566

Project: LTH Industries

 Client Sample ID:
 5815N-VP1-20231228
 Date Sampled:
 12/28/2023

 Lab ID:
 2312566-001A
 Date Received:
 12/28/2023

Analyte	Concen	tration	Reportii	ng Limit	Qual	Method	Date/Analy	rst
Volatile Organic Compounds by	EPA Method TO	<u>)-15</u>						
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
1,1-Dichloroethene (DCE)	<0.0400	<0.159	0.0400	0.159		EPA-TO-15	12/30/2023	LB
cis-1,2-Dichloroethene	0.758	3.00	0.200	0.793		EPA-TO-15	12/30/2023	LB
Tetrachloroethene (PCE)	159	1,080	0.400	2.71		EPA-TO-15	12/30/2023	LB
trans-1,2-Dichloroethene	<0.600	<2.38	0.600	2.38		EPA-TO-15	12/30/2023	LB
Trichloroethene (TCE)	1,140	6,120	0.400	2.15	Е	EPA-TO-15	12/30/2023	LB
Vinyl chloride	<0.0400	<0.102	0.0400	0.102		EPA-TO-15	12/30/2023	LB
Surr: 4-Bromofluorobenzene	106 %Rec		70-130			EPA-TO-15	12/30/2023	LB



WorkOrder: 2312566

Project: LTH Industries

 Client Sample ID:
 5815N-VP8-20231228
 Date Sampled:
 12/28/2023

 Lab ID:
 2312566-002A
 Date Received:
 12/28/2023

Analyte	Concen	tration	Reportii	ng Limit	Qual	Method	Date/Analy	st
Volatile Organic Compounds by	EPA Method TO	<u>)-15</u>						
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
1,1-Dichloroethene (DCE)	<0.0400	<0.159	0.0400	0.159		EPA-TO-15	12/30/2023	LB
cis-1,2-Dichloroethene	<0.200	< 0.793	0.200	0.793		EPA-TO-15	12/30/2023	LB
Tetrachloroethene (PCE)	7.43	50.4	0.0400	0.271		EPA-TO-15	12/30/2023	LB
trans-1,2-Dichloroethene	<0.600	<2.38	0.600	2.38		EPA-TO-15	12/30/2023	LB
Trichloroethene (TCE)	63.0	338	0.0400	0.215		EPA-TO-15	12/30/2023	LB
Vinyl chloride	<0.0400	<0.102	0.0400	0.102		EPA-TO-15	12/30/2023	LB
Surr: 4-Bromofluorobenzene	102 %Rec		70-130			EPA-TO-15	12/30/2023	LB



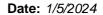
WorkOrder: 2312566

Project: LTH Industries

 Client Sample ID:
 5815N-VP9-20231228
 Date Sampled:
 12/28/2023

 Lab ID:
 2312566-003A
 Date Received:
 12/28/2023

Analyte	Concen	tration	Reportii	ng Limit	Qual	Method	Date/Analy	st
Volatile Organic Compounds by	EPA Method TO	<u>)-15</u>						
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
1,1-Dichloroethene (DCE)	<0.0400	<0.159	0.0400	0.159		EPA-TO-15	12/30/2023	LB
cis-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/30/2023	LB
Tetrachloroethene (PCE)	7.79	52.9	0.0400	0.271		EPA-TO-15	12/30/2023	LB
trans-1,2-Dichloroethene	<0.600	<2.38	0.600	2.38		EPA-TO-15	12/30/2023	LB
Trichloroethene (TCE)	75.1	403	0.0400	0.215		EPA-TO-15	12/30/2023	LB
Vinyl chloride	<0.0400	<0.102	0.0400	0.102		EPA-TO-15	12/30/2023	LB
Surr: 4-Bromofluorobenzene	101 %Rec		70-130			EPA-TO-15	12/30/2023	LB





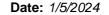
QC SUMMARY REPORT

CLIENT: Landau Associates

Volatile Organic Compounds by EPA Method TO-15

Sample ID: LCS-R88683	SampType: L (cs		Units: ppbv		Prep Date	: 12/29/2	2023	RunNo: 886	<u> </u>	-
Client ID: LCSW	Batch ID: R	88683				Analysis Date	: 12/29/2	2023	SeqNo: 185	52539	
Analyte	Resi	ult RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	1.9	96 0.0100	2.000	0	97.9	70	130				
1,1-Dichloroethene (DCE)	1.8	0.0100	2.000	0	93.5	70	130				
trans-1,2-Dichloroethene	1.9	93 0.150	2.000	0	96.5	70	130				
cis-1,2-Dichloroethene	1.8	81 0.0500	2.000	0	90.7	70	130				
Trichloroethene (TCE)	1.8	0.0100	2.000	0	94.3	70	130				
Tetrachloroethene (PCE)	1.8	87 0.0100	2.000	0	93.3	70	130				
Surr: 4-Bromofluorobenzene	4.1	15	4.000		104	70	130				
Sample ID: MB-R88683	SampType: Mi	BLK		Units: ppbv		Prep Date	: 12/29/2	2023	RunNo: 886		
Client ID: MBLKW		88683				Analysis Date			SeqNo: 185	52540	
Analyte	Resu	ult RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride		ID 0.0100									
1,1-Dichloroethene (DCE)	N	ND 0.0100									
trans-1,2-Dichloroethene	N	ND 0.150									
cis-1,2-Dichloroethene	N	ID 0.0500									
Trichloroethene (TCE)	N	ND 0.0100									
Tetrachloroethene (PCE)	N	ND 0.0100									
Surr: 4-Bromofluorobenzene	3.7	77	4.000		94.1	70	130				
Sample ID: 2312530-001AREP	SampType: RI	 EP		Units: ppbv		Prep Date	: 12/30/2	.023	RunNo: 886	 883	
Sample ID: 2312530-001AREP Client ID: BATCH	SampType: RI Batch ID: Ri	EP 88683		Units: ppbv		Prep Date			RunNo: 886 SeqNo: 185		
Client ID: BATCH		88683	SPK value	Units: ppbv	%REC	Analysis Date	: 12/30/2				Qua
Client ID: BATCH	Batch ID: R	88683	SPK value			Analysis Date	: 12/30/2	2023	SeqNo: 185	52546	Qua
Client ID: BATCH Analyte Vinyl chloride	Batch ID: Resi	88683 ult RL	SPK value			Analysis Date	: 12/30/2	RPD Ref Val	SeqNo: 185	S2546 RPDLimit	Qua I I
Client ID: BATCH Analyte Vinyl chloride 1,1-Dichloroethene (DCE)	Batch ID: Ri Resu N	88683 ult RL	SPK value			Analysis Date	: 12/30/2	RPD Ref Val	SeqNo: 185	RPDLimit 25	Qua
Client ID: BATCH Analyte Vinyl chloride 1,1-Dichloroethene (DCE) trans-1,2-Dichloroethene	Batch ID: Resu	88683 ult RL ID 0.0400 ID 0.0400	SPK value			Analysis Date	: 12/30/2	RPD Ref Val 0 0	SeqNo: 185	RPDLimit 25 25	Qua
Client ID: BATCH Analyte Vinyl chloride 1,1-Dichloroethene (DCE) trans-1,2-Dichloroethene cis-1,2-Dichloroethene	Batch ID: Results Resu	88683 ult RL 4D 0.0400 4D 0.0400 4D 0.600	SPK value			Analysis Date	: 12/30/2	RPD Ref Val 0 0 0	SeqNo: 185	25 25 25 25 25	Qua
Client ID: BATCH Analyte	Batch ID: Results Resu	88683 ult RL ID 0.0400 ID 0.0400 ID 0.600 ID 0.200 ID 0.0400	SPK value			Analysis Date	: 12/30/2	RPD Ref Val 0 0 0 0 0	SeqNo: 185	25 25 25 25 25 25	Qua

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QC SUMMARY REPORT

CLIENT: Landau Associates

LTH Industries

Volatile Organic Compounds by EPA Method TO-15

Sample ID: 2312530-001AREP

SampType: REP Units: ppbv Prep Date: 12/30/2023

RunNo: 88683

Client ID: BATCH

Batch ID: R88683

Result

Analysis Date: 12/30/2023

SeqNo: 1852546

SPK value SPK Ref Val

%REC LowLimit HighLimit RPD Ref Val

%RPD RPDLimit Qual

NOTES:

Analyte

Project:

I - Internal standards were outside of acceptance criteria. Re-analysis and/or matrix spike samples yielded the same result indicating a possible matrix effect.

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Sample Log-In Check List

Client Name:	LA	Work Order Numl	ber: 2312566	
Logged by:	Morgan Wilson	Date Received:	12/28/2023	3 11:00:00 AM
Chain of Cust	tody			
1. Is Chain of C	Custody complete?	Yes 🗸	No 🗌	Not Present
2. How was the	e sample delivered?	Client		
<u>Log In</u>				
	ls present on shipping container/cooler? nments for Custody Seals not intact)	Yes	No \square	Not Present ✓
4. Was an atter	npt made to cool the samples?	Yes	No 🗌	NA 🗹
5. Were all item	as received at a temperature of >2°C to 6°C *	Yes	No 🗌	NA 🗹
6. Sample(s) in	proper container(s)?	Yes 🗸	No 🗌	
7. Sufficient sar	mple volume for indicated test(s)?	Yes 🗸	No \square	
8. Are samples	properly preserved?	Yes 🗸	No \square	
9. Was preserve	ative added to bottles?	Yes	No 🗹	NA \square
10. Is there head	Ispace in the VOA vials?	Yes	No 🗌	NA 🗸
11. Did all sampl	es containers arrive in good condition(unbroken)?	Yes 🗸	No 🗌	
12. Does paperw	ork match bottle labels?	Yes 🗸	No 🗌	
13. Are matrices	correctly identified on Chain of Custody?	Yes 🗸	No 🗌	
14. Is it clear wha	at analyses were requested?	Yes 🗸	No \square	
15. Were all hold be met?	I times (except field parameters, pH e.g.) able to	Yes 🗸	No 🗌	
Special Hand	lling (if applicable)			
16. Was client r	notified of all discrepancies with this order?	Yes	No \square	NA 🗹
Persor	n Notified: Date	:		
By Wh	oom: Via:	eMail Pl	hone Fax [In Person
Regard	ding:			
Client	Instructions:			
17 Additional re	emarke:			

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Item Information

		۱ ا				ir Ch	ain of (ustoc	Air Chain of Custody Record	20	orato	Laboratory Services Agreement	nent
Fremo	non	r	3600 Fremont Ave N. Seattle, WA 98103 Tel: 206-352-3790			10,12			2 2	E !	Laboratory Project No (internal):	ernal): 23 12566	
	Amalysical	17.0	Fax: 206-352-7178		Project Name: 855646	(Town	12/2	Page:	of:				
client: LANDAU					Project No: 14	133001	Project No: 1933 601 630, 633	3		The Tree		70 51 5-4 370 51	
Address: 2107 5 6 55					Location: 5>	52-1He 16	W.A			1,1026	- 1	16-141	
City, State, Zip: Tacks. Mac, MA	18401				Collected by:	Jos							
3-579-7	1					1): Sour 14/	markey ;	5,011-	Not	Air samples otherwise r	are disposed equested.	Air samples are disposed of one week after report is submitted to client unless otherwise requested. M OK to Dispose Hold (fees may apply)	y apply)
Fax: N/A					Email (PM):	10 0 to	dutal landouine. Con	juga kup @	whole oga	am smatte	e ladanine	16,64M	
- 1									015 ***		260		Internal
Sample Name	Canister / Flow Reg Sample Type Serial # (Matrix) *		Container Type **	Expected Fill Time / Flow Rate	Sample Start Date & Time	Field Initial Sample Pressure (" Hg)	Sample End Date & Time	Field Final Sample Pressure (" Hg)	Full list VOCs TO Select VOCs TO APH TO15 Siloxanes TO15	Sulfur TO15 Major Gases 30 Helium 3C Mo	VOCs 8260 GX/BTEX 826	Comments	Final Pressure ("Hg)
30231228 - TDN - NS185	10376	~	1	5 MIN	1036	-30	tho!	۲	Х.			Shee	4
2812N-128-	11404		±	5 MN	12/28/23	- 30	EC/96/EN	7	_				~
Serieto	188	V	Ē		1101		1016		×			094.48	
- 6dr- NS185 E	11019	^	=	5 MIN	12/25/23		12/88/23	ىر	۷.				V
3,431228	100	U	Ē		te o1	1 0	3501	1)			stipping	V
*	5024		7										1
					ė.								
* Matrix Codes: AA = Ambient Air OA	OA = Outdoor Air		IA = Indoor Air	S=	S = Subslab / Soil Gas SVE	Si	SVE = Filte	#	andfill D = Digester	Tedlar Bag		Turn-Around Time: Standard Next Day	₹
*** Select one: BTEXN & APH	PCE & Breakdown	kdown	Other	, specify in	Other, specify in comments							□ 3 Day □ Same Day	ау
I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.	to this Agreement	vith Frem	ont Analytica	on behalf	of the Client na	med above,	that I have veri	fied Client's	agreement to each	of the terms on t	he front and	2 Day specify	
Relinquished (Signature)			Buston		1/18 / 1037 @ 1100	261100	Received (Signature)	(ure)	1	la Mu	Print Name	Date/Time	
Relinquished (Signature)		Print Name			Date/Time		Received (Signature)	(ann)		Print	Name	Jake/ I true	