

Mr. Robert Hood
Oregon Department of Environmental Quality
700 NE Multnomah St., Suite #600
Portland, Oregon 97232

Friday, October 07, 2022

RE: June 2022 Sub-Slab Vapor Performance Monitoring Event – October 2022 Revision
ECSI Facility #6219
3912 N Vancouver Avenue
Portland, Oregon 97227

Mr. Hood,

Point Source Solutions (Point Source) has conducted sub-slab vapor performance monitoring at the The Brio Lofts, located at 3912 N Vancouver Avenue in Portland, Oregon (Site).

The Site is identified on a Site Location Map (**Figure 1**) and Sub-Slab Monitoring Probe Locations Map (**Figure 2**), all of which are located in the Figures attached to this memo.

Specific revisions to the initial draft of this sub-slab vapor performance monitoring event report which were requested via email on August 23, 2022, have been added in **bold type**.

BACKGROUND

Point Source completed an Operations, Maintenance and Monitoring Plan (OMMP) for the Site (Point Source Solutions Project Number OR210129-1, dated April 2, 2021). The following are excerpts from the OMMP:

A baseline monitoring event was completed on January 20, 2021. The purpose of this event was to confirm that vapor concentrations were compliant with applicable RBCs and that the installed system was working as designed.

Concentrations of gasoline-range hydrocarbons and VOCs in vapor samples collected from the system vent riser and the two sub-slab sampling ports for the Baseline Monitoring Event were below the ODEQ Soil Gas Inhalation RBC for residential receptors.

Performance monitoring will occur on a semi-annual basis for the first 1.5 years of passive system operation. The first performance monitoring event will occur approximately six months following the baseline monitoring event (anticipated June 2021). The second performance monitoring event will occur approximately six months following the first performance monitoring event (anticipated December 2021) and the third six months later (anticipated June 2022). Performance monitoring is intended to evaluate passive system performance and the need for contingency measures.

If the results of the three performance monitoring events are consistent with the baseline monitoring event and/or demonstrate that contaminant concentrations within sub-slab vapor are less than applicable ODEQ RBCs for soil gas, Point Source will request that ODEQ release the requirement for future monitoring of the vapor barrier/ventilation system. Upon release from ODEQ for future monitoring, the passive system will remain in operation.

The baseline monitoring event that was completed on January 20, 2021 was sampled using laboratory-

provided sorbent tubes analyzed via Method TO-17. After the submittal of the OMMP to DEQ, DEQ requested that the analytical method be changed to Method TO-15 for all subsequent performance monitoring events, stating that Method TO-15 is a more appropriate method for evaluating vapor intrusion. For this reason, the analytical method was changed to Method TO-15 for all subsequent performance monitoring events, and all samples collected during the performance monitoring events used laboratory-provided summa canisters.

On June 28, 2021, Point Source conducted the 1st semi-annual sub-slab vapor monitoring event at the Site. None of the concentrations of contaminants of concern detected during the sampling event exceeded the most stringent RBCs applicable to this Site.

On December 3, 2022, Point Source conducted the 2nd semi-annual sub-slab vapor monitoring event at the Site. None of the concentrations of contaminants of concern detected during the sampling event exceeded the most stringent RBCs applicable.

SUB-SLAB VAPOR PERFORMANCE MONITORING EVENT – JUNE 2022

On June 21, 2022, Point Source conducted the 3rd semi-annual sub-slab vapor monitoring event at the Site.

Before sampling, a visual inspection of the vent riser and each sub-slab monitoring probe was completed. The overall condition of the riser and the monitoring probes were in accordance with engineering specifications.

The sub-slab vapor sampling from each monitoring probe was conducted as follows:

- A length of disposable Teflon™ tubing was connected to the monitoring point threaded fitting and routed to a handheld instrument to induce a vacuum and maintain a sampling flow at 100 ml/min. All connections were made with Swagelok fittings.
- Using the handheld instrument, the sub-slab monitoring probes were purged of at least 2 dead-air space volumes (a minimum of 3-minutes) from within the intake assembly and tubing. Purging was accomplished using the handheld instrument to induce a vacuum incorporated into the sampling assembly. Upon achieving sufficient purge volume, the purging was discontinued.
- Leak-detection was performed by soaking rags with isopropyl alcohol and the installation of a temporary water dam; the rags were placed over the sampling fitting and connection points within the sampling manifold.
- Samples were collected with a laboratory-provided summa canister by attaching the summa canister to a flow regulated sampling manifold and collecting a sample by drawing between 1 to 6 liters of sample into the canister (to ensure low reporting limits), which was then returned to the laboratory.
- A discharge vapor sample was also collected from the vertical vent riser using a summa canister.

It was discovered during the June 21 monitoring event that the summa canister allotted for sample PS1 was suspected to have leaked in transit. The lab inspected the canister's final pressure with a different flow controller upon arrival in order to confirm this. The sample that had been collected with the canister that leaked before the monitoring event in transit was not analyzed, and the lab sent a replacement canister for the recollection of sample PS1. The sampling event recollecting sample PS1 from the passive system vent riser was conducted on June 28, 2022 following the same sampling methodology detailed above.

Vapor samples were transported under chain of custody to Friedman and Bruya of Seattle, Washington. Each sample was labeled for identification, and Chain of Custody was maintained for all samples. The samples were analyzed for gasoline range hydrocarbons and select VOCs (common gasoline constituents). A table summarizing the results of all target analytes analyzed for during the baseline monitoring event and all subsequent performance monitoring events is attached to this document as Table 1.

Copies of the laboratory analytical reports are provided in Appendix C.

Laboratory QA/QC measures were performed through data validation of available analytical data generated as part of these sampling events. Data validation considered the following:

- Method Detection and/or Reporting Limits
- Laboratory Matrix Blanks
- Sample Holding Times
- Surrogate and Matrix Spike Recoveries, and
- Laboratory Duplicate Analysis Results

Friedman & Bruya did not report qualifiers that would indicate problems with the sample results. According to the lab reports all analyses were performed with the appropriate Batch QC (including Sample Duplicates, Matrix Spikes and/or Matrix Spike Duplicates) in order to meet or exceed method and regulatory requirements. Exceptions are qualified in the analytical report. In cases where there is insufficient sample material provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis. 2-Propanol was used as a leak check compound for the soil vapor samples. 2-Propanol was not detected or was detected at very low concentrations, indicating that the VOC sample results are valid.

SUMMARY AND CONCLUSIONS

Based on the results of this semi-annual sampling event, the following conclusions have been developed:

Benzene detected in June 2022 from the vent riser sample at 160.0 ug/m³ is the only VOC concentration exceeding the ODEQ Soil Gas Inhalation RBC for Residential Receptors (72.0 ug/m³) detected during the 3 performance monitoring events. This concentration falls below RBCs for receptors currently applicable to the Site—urban residential receptors (170 ug/m³) and occupational receptors (1,600 ug/m³).

The sub-slab sample results of SS1 and SS2 during the same monitoring event did not return Benzene detections exceeding their respective MDLs. The fact that Benzene concentrations are significantly lower and/or untraceable in sub-slab samples compared to the vent riser sample demonstrates the efficacy of the Absolute Barrier Y40BAC 40-mil liner installed. The sub-slab vapor monitoring points only penetrate through the buildings foundational slab, not the liner, and therefore when sampled, only draw from gases trapped in the interstitial space between the foundation slab and the liner. The vent riser draws from soil gas collected by the network of PVC pipe running beneath the liner, in closer contact to soil contamination remaining beneath. On-site receptors are only potentially exposed to soil gas that is being drawn from the sub-slab monitoring points, not the passive system vent riser. Although vent riser sample PS1 and sub-slab vapor

samples SS1 and SS2 were collected one week apart from each other due to unforeseeable sampling equipment issues, Point Source maintains that this gap in time is not significant enough to prevent their direct comparison.

Point Source contends that because the results derived from samples collected from the sub-slab monitoring points over the course of three performance monitoring events have returned results indicative of site conditions being protective of human health for onsite receptors, the performance objectives for the system have been achieved.

The performance monitoring is indicative of the passive soil vapor mitigation system operating as designed. Point Source requests that ODEQ release the requirement for future monitoring of the vapor barrier/ventilation system, consistent with the April 2021 OMMP prepared for the Site and issue a No Further Action determination for the Site.

If you have any questions regarding the information contained in this Plan, please do not hesitate to call Gil Cobb or Jeff Jackman at 503.236.5885.



Prepared by:
Gil Cobb, Registered Geologist (Oregon #G1440)



Expires 12/31/2022



Reviewed By:
Jeff Jackman, Environmental Professional

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Attachments:

Figure 1 – Site Location Map

Figure 2 – Sub-Slab Monitoring Probe Locations

Table 1, 2, 3, 4 – Laboratory Analytical Results

Appendix A – Laboratory Analytical Reports

Appendix B – Field Forms

FIGURES

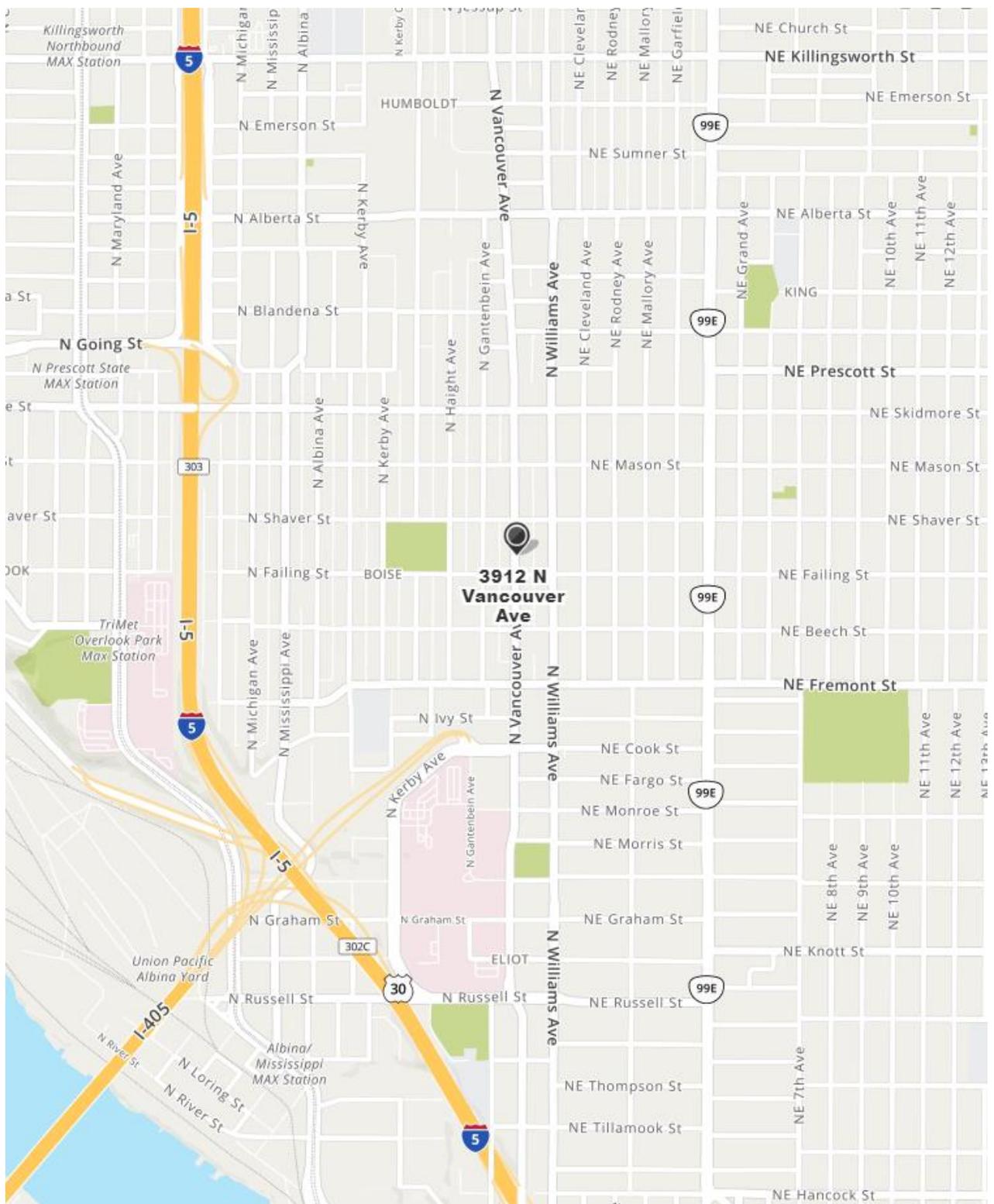


FIGURE 1 - SITE LOCATION MAP

Map from MapQuest



Site Name: ECSI Facility #6219
3912 N. Vancouver Avenue
Portland, Oregon 97227

Project Number: OR170712-3C

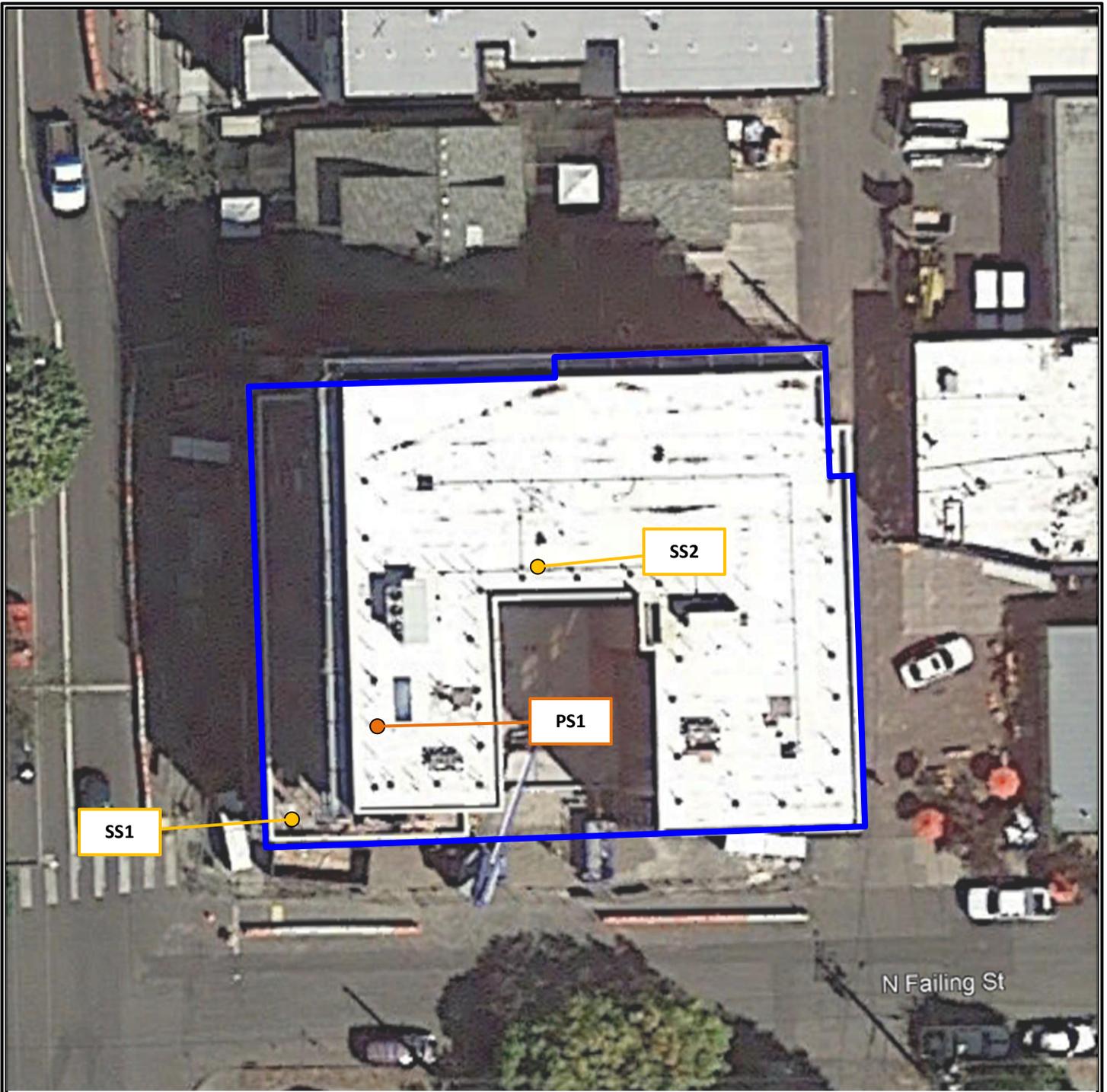


FIGURE 2: SUB-SLAB MONITORING PROBE LOCATIONS

Imagery from Google Earth (2020)

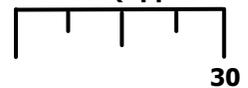


● Sub-Slab Probe Locations

● Vent Riser Sampling Port

Scale in Feet (Approximate)

□ Parking Garage Boundary



Site Name: ECSI Facility #6219
 3912 N Vancouver Avenue
 Portland, Oregon 97227

Project Number: OR170712-3C

TABLES

TABLE 1 - JANUARY 2021 BASELINE MONITORING EVENT

| ANALYTE | RBCsg Residential | RBCsg Urban Residential | RBCsg Occupational | PS1 | SS1 | SS2 |
|--|-------------------|-------------------------|--------------------|--------|--------|--------|
| SOIL GAS (UG/M3) – METHOD TO-17 | | | | | | |
| 1,1-Dichloroethane | 350 | 830 | 7,700 | <5.0 | <5.0 | <5.0 |
| 1,1-Dichloroethene | 42,000 | 42,000 | 880,000 | <10.0 | <10.0 | <10.0 |
| 1,1,1-Trichloroethane | 1,000,000 | 1,000,000 | 22,000,000 | 6.4 | <5.0 | 10.0 |
| 1,1,2-Trichloroethane | 35 | 42 | 770 | <1.0 | <1.0 | <1.0 |
| 1,2-Dichlorobenzene | 42,000 | 42,000 | 880,000 | <1.0 | <1.0 | <1.0 |
| 1,2,4-TMB | 13,000 | 13,000 | 260,000 | 2.6 | 3.1 | 3.6 |
| 1,3,5-TMB | 13,000 | 13,000 | 260,000 | <1.0 | <1.0 | <1.0 |
| 1,4-Dichlorobenzene | 51 | 120 | 1,100 | <1.0 | <1.0 | <1.0 |
| 1,4-Dioxane | 110 | 270 | 2,500 | NA | NA | NA |
| Benzene | 72 | 170 | 1,600 | 40.0 | <20.0 | <20.0 |
| Bromoform | 510 | 1,200 | 11,000 | <5.0 | <5.0 | <5.0 |
| Bromomethane | 1,000 | 1,000 | 22,000 | NA | NA | NA |
| Carbon tetrachloride | 94 | 220 | 2,000 | <5.0 | <5.0 | <5.0 |
| Chlorobenzene | 10,000 | 10,000 | 220,000 | <1.0 | <1.0 | <1.0 |
| Chloroethane | 2,100,000 | 2,100,000 | 44,000,000 | NA | NA | NA |
| Chloroform | 24 | 58 | 530 | <5.0 | <5.0 | <5.0 |
| Chloromethane | 19,000 | 19,000 | 390,000 | NA | NA | NA |
| EDB | 0.94 | 2.2 | 20 | <5.0 | <5.0 | <5.0 |
| EDC | 22 | 51 | 470 | <5.0 | <5.0 | <5.0 |
| Ethylbenzene | 220 | 530 | 4,900 | <5.0 | <5.0 | <5.0 |
| GRO | 79,000 | 79,000 | 1,700,000 | <2500 | <2500 | <2500 |
| Isopropylbenzene (Cumene) | 83,000 | 83,000 | 1,800,000 | <5.0 | <5.0 | <5.0 |
| MTBE | 2,200 | 5,100 | 47,000 | <25.0 | <25.0 | <25.0 |
| Naphthalene | 17 | 39 | 360 | <1.0 | <1.0 | <1.0 |
| PCE | 2,200 | 5,100 | 47,000 | 7.0 | 4.1 | 30.0 |
| Styrene | 210,000 | 210,000 | 4,400,000 | <5.0 | <5.0 | <5.0 |
| TCE | 95 | 200 | 2,900 | 4.0 | 1.3 | 8.6 |
| Toluene | 1,000,000 | 1,000,000 | 22,000,000 | 8.5 | 7.4 | 7.7 |
| Vinyl chloride | 33 | 41 | 2,800 | <5.0 | <5.0 | <5.0 |
| Xylenes | 21,000 | 21,000 | 440,000 | <5.0 | <5.0 | <5.0 |
| 2-Propanol | - | - | - | <250.0 | <250.0 | <250.0 |

Notes:

- Concentrations are only presented for regulated compounds. Various compounds were detected in these samples without corresponding RBCs for the relevant exposure scenarios.
- 2-Propanol was used as a sample breakthrough compound. Concentrations of less than 5% (500,000 ug/m3) are acceptable.

Soil Gas exceeding RBCsg – Residential Receptors

Soil Gas exceeding RBCsg – Urban Residential Receptors

Soil Gas exceeding RBCsg – Occupational Receptors

TABLE 2 - JUNE 2021 BASELINE MONITORING EVENT

| ANALYTE | RBCsg Residential | RBCsg Urban Residential | RBCsg Occupational | PS1 | SS1 | SS2 |
|--|-------------------|-------------------------|--------------------|---------|--------|--------|
| SOIL GAS (UG/M3) – METHOD TO-15 | | | | | | |
| 1,1-Dichloroethane | 350 | 830 | 7,700 | <3.8 | <2.4 | <2.4 |
| 1,1-Dichloroethene | 42,000 | 42,000 | 880,000 | 11.0 | 6.4 | 19.0 |
| 1,1,1-Trichloroethane | 1,000,000 | 1,000,000 | 22,000,000 | 28.0 | 27.0 | 24.0 |
| 1,1,2-Trichloroethane | 35 | 42 | 770 | 0.52 | <0.33 | <0.32 |
| 1,2-Dichlorobenzene | 42,000 | 42,000 | 880,000 | <5.7 | <3.6 | <3.5 |
| 1,2,4-TMB | 13,000 | 13,000 | 260,000 | 29.0 | <15.0 | <15.0 |
| 1,3,5-TMB | 13,000 | 13,000 | 260,000 | <23.0 | <15.0 | <15.0 |
| 1,4-Dichlorobenzene | 51 | 120 | 1,100 | <2.2 | <1.4 | <1.3 |
| 1,4-Dioxane | 110 | 270 | 2,500 | 3.7 | <2.2 | <2.1 |
| Benzene | 72 | 170 | 1,600 | 71.0 | 2.8 | <1.9 |
| Bromoform | 510 | 1,200 | 11,000 | <20.0 | <12.0 | <12.0 |
| Bromomethane | 1,000 | 1,000 | 22,000 | <22.0 | <14.0 | <14.0 |
| Carbon tetrachloride | 94 | 220 | 2,000 | 3.3 | 3.1 | 3.1 |
| Chlorobenzene | 10,000 | 10,000 | 220,000 | <4.4 | <2.8 | <2.7 |
| Chloroethane | 2,100,000 | 2,100,000 | 44,000,000 | <25.0 | <16.0 | <16.0 |
| Chloroform | 24 | 58 | 530 | 7.9 | 8.7 | 3.8 |
| Chloromethane | 19,000 | 19,000 | 390,000 | <35.0 | <22.0 | <22.0 |
| EDB | 0.94 | 2.2 | 20 | <0.73 | <0.46 | <0.45 |
| EDC | 22 | 51 | 470 | 1.2 | <0.24 | <0.24 |
| Ethylbenzene | 220 | 530 | 4,900 | 17.0 | 8.2 | 4.3 |
| GRO | 79,000 | 79,000 | 1,700,000 | 17000.0 | 7400.0 | 3900.0 |
| Isopropylbenzene (Cumene) | 83,000 | 83,000 | 1,800,000 | 89.0 | <15.0 | <15.0 |
| MTBE | 2,200 | 5,100 | 47,000 | <17.0 | <11.0 | <11.0 |
| Naphthalene | 17 | 39 | 360 | <2.5 | 1.7 | 1.7 |
| PCE | 2,200 | 5,100 | 47,000 | 220.0 | 91.0 | 170.0 |
| Styrene | 210,000 | 210,000 | 4,400,000 | 78.0 | 18.0 | 10.0 |
| TCE | 95 | 200 | 2,900 | 21.0 | 19.0 | 20.0 |
| Toluene | 1,000,000 | 1,000,000 | 22,000,000 | <180.0 | <110.0 | <110.0 |
| Vinyl chloride | 33 | 41 | 2,800 | <2.4 | <1.5 | <1.5 |
| Xylenes | 21,000 | 21,000 | 440,000 | 64.0 | 44.0 | 23.0 |
| 2-Propanol | - | - | - | <82.0 | <52.0 | <51.0 |

Notes:

- Concentrations are only presented for regulated compounds. Various compounds were detected in these samples without corresponding RBCs for the relevant exposure scenarios.
- 2-Propanol was used as a sample breakthrough compound. Concentrations of less than 5% (500,000 ug/m3) are acceptable.

Soil Gas exceeding RBCsg – Residential Receptors

Soil Gas exceeding RBCsg – Urban Residential Receptors

Soil Gas exceeding RBCsg – Occupational Receptors

| TABLE 3 – DECEMBER 2021 BASELINE MONITORING EVENT | | | | | | |
|---|-------------------|-------------------------|--------------------|--------|---------|---------|
| ANALYTE | RBCsg Residential | RBCsg Urban Residential | RBCsg Occupational | PS1 | SS1 | SS2 |
| SOIL GAS (UG/M3) – METHOD TO-15 | | | | | | |
| 1,1-Dichloroethane | 350 | 830 | 7,700 | <2.2 | <2.3 | <2.3 |
| 1,1-Dichloroethene | 42,000 | 42,000 | 880,000 | <2.2 | <2.2 | <2.2 |
| 1,1,1-Trichloroethane | 1,000,000 | 1,000,000 | 22,000,000 | <3.0 | <3.1 | <3.1 |
| 1,1,2-Trichloroethane | 35 | 42 | 770 | <0.3 | <0.31 | <0.31 |
| 1,2-Dichlorobenzene | 42,000 | 42,000 | 880,000 | <3.3 | <3.4 | <3.4 |
| 1,2,4-TMB | 13,000 | 13,000 | 260,000 | <14.0 | <14.0 | <14.0 |
| 1,3,5-TMB | 13,000 | 13,000 | 260,000 | <14.0 | <14.0 | <14.0 |
| 1,4-Dichlorobenzene | 51 | 120 | 1,100 | <1.3 | <1.3 | <1.3 |
| 1,4-Dioxane | 110 | 270 | 2,500 | <2.0 | <2.0 | <2.0 |
| Benzene | 72 | 170 | 1,600 | 60.0 | 4.8 | 4.7 |
| Bromoform | 510 | 1,200 | 11,000 | <11.0 | <12.0 | <12.0 |
| Bromomethane | 1,000 | 1,000 | 22,000 | <13.0 | <13.0 | <13.0 |
| Carbon tetrachloride | 94 | 220 | 2,000 | <1.7 | <1.8 | <1.8 |
| Chlorobenzene | 10,000 | 10,000 | 220,000 | <2.5 | <2.6 | <2.6 |
| Chloroethane | 2,100,000 | 2,100,000 | 44,000,000 | <15.0 | <15.0 | <15.0 |
| Chloroform | 24 | 58 | 530 | 3.3 | <0.27 | 1.9 |
| Chloromethane | 19,000 | 19,000 | 390,000 | <20.0 | <21.0 | <21.0 |
| EDB | 0.94 | 2.2 | 20 | <0.42 | <0.43 | <0.43 |
| EDC | 22 | 51 | 470 | <0.22 | <0.23 | <0.23 |
| Ethylbenzene | 220 | 530 | 4,900 | 20.0 | 11.0 | 14.0 |
| GRO | 79,000 | 79,000 | 1,700,000 | 2100.0 | <1800.0 | <1800.0 |
| Isopropylbenzene (Cumene) | 83,000 | 83,000 | 1,800,000 | 29.0 | <14.0 | <14.0 |
| MTBE | 2,200 | 5,100 | 47,000 | <9.9 | <10.0 | <10.0 |
| Naphthalene | 17 | 39 | 360 | <1.4 | <1.5 | <1.5 |
| PCE | 2,200 | 5,100 | 47,000 | <37.0 | <38.0 | <38.0 |
| Styrene | 210,000 | 210,000 | 4,400,000 | <4.7 | <4.8 | <4.8 |
| TCE | 95 | 200 | 2,900 | 1.5 | <0.6 | 1.8 |
| Toluene | 1,000,000 | 1,000,000 | 22,000,000 | 230.0 | 130.0 | 130.0 |
| Vinyl chloride | 33 | 41 | 2,800 | <1.4 | <1.4 | <1.4 |
| Xylenes | 21,000 | 21,000 | 440,000 | 104.0 | 60.0 | 76.0 |
| 2-Propanol | - | - | - | <47.0 | <48.0 | <48.0 |

Notes:

- Concentrations are only presented for regulated compounds. Various compounds were detected in these samples without corresponding RBCs for the relevant exposure scenarios.
- 2-Propanol was used as a sample breakthrough compound. Concentrations of less than 5% (500,000 ug/m3) are acceptable.

Soil Gas exceeding RBCsg – Residential Receptors

Soil Gas exceeding RBCsg – Urban Residential Receptors

Soil Gas exceeding RBCsg – Occupational Receptors

TABLE 4 – JUNE 2022 BASELINE MONITORING EVENT

| ANALYTE | RBCsg Residential | RBCsg Urban Residential | RBCsg Occupational | PS1 | SS1 | SS2 |
|--|-------------------|-------------------------|--------------------|--------------|---------|---------|
| SOIL GAS (UG/M3) – METHOD TO-15 | | | | | | |
| 1,1-Dichloroethane | 350 | 830 | 7,700 | <7.7 | <2.2 | <2.7 |
| 1,1-Dichloroethene | 42,000 | 42,000 | 880,000 | <7.5 | <2.2 | <2.6 |
| 1,1,1-Trichloroethane | 1,000,000 | 1,000,000 | 22,000,000 | <10.0 | <3.0 | <3.6 |
| 1,1,2-Trichloroethane | 35 | 42 | 770 | <1.0 | <0.3 | <0.36 |
| 1,2-Dichlorobenzene | 42,000 | 42,000 | 880,000 | <11.0 | <3.3 | <4.0 |
| 1,2,4-TMB | 13,000 | 13,000 | 260,000 | <93.0 | <27.0 | <32.0 |
| 1,3,5-TMB | 13,000 | 13,000 | 260,000 | <93.0 | <27.0 | <32.0 |
| 1,4-Dichlorobenzene | 51 | 120 | 1,100 | <4.3 | <1.3 | <1.5 |
| 1,4-Dioxane | 110 | 270 | 2,500 | <6.8 | <2.0 | <2.4 |
| Benzene | 72 | 170 | 1,600 | 160.0 | <1.8 | <2.1 |
| Bromoform | 510 | 1,200 | 11,000 | <39.0 | <11.0 | <14.0 |
| Bromomethane | 1,000 | 1,000 | 22,000 | <74.0 | <21.0 | <26.0 |
| Carbon tetrachloride | 94 | 220 | 2,000 | <6.0 | <1.7 | <2.1 |
| Chlorobenzene | 10,000 | 10,000 | 220,000 | <8.7 | <2.5 | <3.0 |
| Chloroethane | 2,100,000 | 2,100,000 | 44,000,000 | <50.0 | <15.0 | <17.0 |
| Chloroform | 24 | 58 | 530 | 4.4 | <0.27 | 2.4 |
| Chloromethane | 19,000 | 19,000 | 390,000 | <71.0 | <20.0 | <25.0 |
| EDB | 0.94 | 2.2 | 20 | <1.5 | <0.42 | <0.51 |
| EDC | 22 | 51 | 470 | <0.77 | <0.22 | <0.27 |
| Ethylbenzene | 220 | 530 | 4,900 | <8.3 | <2.4 | <2.9 |
| GRO | 79,000 | 79,000 | 1,700,000 | <6200.0 | <1800.0 | <2200.0 |
| Isopropylbenzene (Cumene) | 83,000 | 83,000 | 1,800,000 | <190.0 | <54.0 | <65.0 |
| MTBE | 2,200 | 5,100 | 47,000 | <140.0 | <40.0 | <48.0 |
| Naphthalene | 17 | 39 | 360 | <5.0 | <1.4 | <1.7 |
| PCE | 2,200 | 5,100 | 47,000 | <130.0 | <37.0 | 100.0 |
| Styrene | 210,000 | 210,000 | 4,400,000 | <16.0 | <4.7 | <5.6 |
| TCE | 95 | 200 | 2,900 | 2.2 | <0.59 | 7.2 |
| Toluene | 1,000,000 | 1,000,000 | 22,000,000 | <360.0 | <100.0 | <120.0 |
| Vinyl chloride | 33 | 41 | 2,800 | <4.9 | <1.4 | <1.7 |
| Xylenes | 21,000 | 21,000 | 440,000 | 32.7 | 11.89 | <5.7 |
| 2-Propanol | - | - | - | <160.0 | <47.0 | <57.0 |

Notes:

- Concentrations are only presented for regulated compounds. Various compounds were detected in these samples without corresponding RBCs for the relevant exposure scenarios.
- 2-Propanol was used as a sample breakthrough compound. Concentrations of less than 5% (500,000 ug/m3) are acceptable.

Soil Gas exceeding RBCsg – Residential Receptors

Soil Gas exceeding RBCsg – Urban Residential Receptors

Soil Gas exceeding RBCsg – Occupational Receptors

APPENDICES

APPENDIX A

LABORATORY ANALYTICAL REPORTS

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

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January 28, 2021

Gil Cobb, Project Manager
Point Source Solutions
10445 SW Canyon Rd., Ste. 266
Beaverton, OR 97005

Dear Mr Cobb:

Included are the results from the testing of material submitted on January 21, 2021 from the BRIO, F&BI 101276 project. There are 7 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
PSS0128R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on January 21, 2020 by Friedman & Bruya, Inc. from the Point Source Solutions BRIO, F&BI 101276 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>Point Source Solutions</u> |
|----------------------|-------------------------------|
| 101276 -01 | PS1 |
| 101276 -02 | SS1 |
| 101276 -03 | SS2 |

The hexane and 2-butanone (MEK) concentration in sample PS1 exceeded the calibration range of the instrument. The data were flagged accordingly.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-17

| | | |
|--------------------------|-------------|------------------------|
| Client Sample ID: PS1 | Client: | Point Source Solutions |
| Date Received: 01/21/21 | Project: | BRIO, F&BI 101276 |
| Date Collected: 01/20/21 | Lab ID: | 101276-01 |
| Date Analyzed: 01/21/21 | Data File: | 012110.D |
| Matrix: Air | Instrument: | GCMS10 |
| Units: ug/m3 | Operator: | bat |

| Compounds: | Concentration ug/m3 | Compounds: | Concentration ug/m3 |
|-----------------------------|------------------------|-----------------------------|------------------------|
| Dichlorodifluoromethane | 26 | 1,2-Dibromoethane (EDB) | <5 |
| Vinyl chloride | <5 | Chlorobenzene | <1 |
| 2-Propanol | <250 | Ethylbenzene | <5 |
| 1,1-Dichloroethene | <10 | 1,1,1,2-Tetrachloroethane | <5 |
| Hexane | 310 ve | m,p-Xylene | <10 |
| t-Butyl alcohol (TBA) | <250 | o-Xylene | <5 |
| Methyl t-butyl ether (MTBE) | <25 | Styrene | <5 |
| trans-1,2-Dichloroethene | <5 | Isopropylbenzene | <5 |
| 1,1-Dichloroethane | <5 | Bromoform | <5 |
| 2,2-Dichloropropane | <5 | n-Propylbenzene | <1 |
| cis-1,2-Dichloroethene | <5 | Bromobenzene | <1 |
| Chloroform | <5 | 1,3,5-Trimethylbenzene | <1 |
| 2-Butanone (MEK) | 1,200 ve | 1,1,2,2-Tetrachloroethane | <1 |
| 1,2-Dichloroethane (EDC) | <5 | 1,2,3-Trichloropropane | <1 |
| 1,1,1-Trichloroethane | 6.4 | 2-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <5 | 4-Chlorotoluene | <1 |
| Carbon tetrachloride | <5 | tert-Butylbenzene | <1 |
| Benzene | 40 | 1,2,4-Trimethylbenzene | 2.6 |
| Trichloroethene | 4.0 | sec-Butylbenzene | <1 |
| 1,2-Dichloropropane | <5 | p-Isopropyltoluene | <2 |
| Bromodichloromethane | <5 | 1,3-Dichlorobenzene | <1 |
| Dibromomethane | <5 | 1,4-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <5 | 1,2-Dichlorobenzene | <1 |
| cis-1,3-Dichloropropene | <5 | 1,2-Dibromo-3-chloropropane | <1 |
| Toluene | 8.5 | 1,2,4-Trichlorobenzene | <1 |
| trans-1,3-Dichloropropene | <1 | Hexachlorobutadiene | <1 |
| 1,1,2-Trichloroethane | <1 | Naphthalene | <1 |
| 2-Hexanone | <25 | 1,2,3-Trichlorobenzene | <5 |
| 1,3-Dichloropropane | <1 | 2-Methylnaphthalene | <10 |
| Tetrachloroethene | 7.0 | 1-Methylnaphthalene | <10 |
| Dibromochloromethane | 5.3 | Gasoline Range Organics | <2500 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-17

| | | |
|--------------------------|-------------|------------------------|
| Client Sample ID: SS1 | Client: | Point Source Solutions |
| Date Received: 01/21/21 | Project: | BRIO, F&BI 101276 |
| Date Collected: 01/20/21 | Lab ID: | 101276-02 |
| Date Analyzed: 01/21/21 | Data File: | 012111.D |
| Matrix: Air | Instrument: | GCMS10 |
| Units: ug/m3 | Operator: | bat |

| Compounds: | Concentration ug/m3 | Compounds: | Concentration ug/m3 |
|-----------------------------|------------------------|-----------------------------|------------------------|
| Dichlorodifluoromethane | <25 | 1,2-Dibromoethane (EDB) | <5 |
| Vinyl chloride | <5 | Chlorobenzene | <1 |
| 2-Propanol | <250 | Ethylbenzene | <5 |
| 1,1-Dichloroethene | <10 | 1,1,1,2-Tetrachloroethane | <5 |
| Hexane | <25 | m,p-Xylene | <10 |
| t-Butyl alcohol (TBA) | <250 | o-Xylene | <5 |
| Methyl t-butyl ether (MTBE) | <25 | Styrene | <5 |
| trans-1,2-Dichloroethene | <5 | Isopropylbenzene | <5 |
| 1,1-Dichloroethane | <5 | Bromoform | <5 |
| 2,2-Dichloropropane | <5 | n-Propylbenzene | <1 |
| cis-1,2-Dichloroethene | <5 | Bromobenzene | <1 |
| Chloroform | <5 | 1,3,5-Trimethylbenzene | <1 |
| 2-Butanone (MEK) | <25 | 1,1,2,2-Tetrachloroethane | <1 |
| 1,2-Dichloroethane (EDC) | <5 | 1,2,3-Trichloropropane | <1 |
| 1,1,1-Trichloroethane | <5 | 2-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <5 | 4-Chlorotoluene | <1 |
| Carbon tetrachloride | <5 | tert-Butylbenzene | <1 |
| Benzene | <20 | 1,2,4-Trimethylbenzene | 3.1 |
| Trichloroethene | 1.3 | sec-Butylbenzene | <1 |
| 1,2-Dichloropropane | <5 | p-Isopropyltoluene | <2 |
| Bromodichloromethane | <5 | 1,3-Dichlorobenzene | <1 |
| Dibromomethane | <5 | 1,4-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <5 | 1,2-Dichlorobenzene | <1 |
| cis-1,3-Dichloropropene | <5 | 1,2-Dibromo-3-chloropropane | <1 |
| Toluene | 7.4 | 1,2,4-Trichlorobenzene | <1 |
| trans-1,3-Dichloropropene | <1 | Hexachlorobutadiene | <1 |
| 1,1,2-Trichloroethane | <1 | Naphthalene | <1 |
| 2-Hexanone | <25 | 1,2,3-Trichlorobenzene | <5 |
| 1,3-Dichloropropane | <1 | 2-Methylnaphthalene | <10 |
| Tetrachloroethene | 4.1 | 1-Methylnaphthalene | <10 |
| Dibromochloromethane | <5 | Gasoline Range Organics | <2500 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-17

| | | |
|--------------------------|-------------|------------------------|
| Client Sample ID: SS2 | Client: | Point Source Solutions |
| Date Received: 01/21/21 | Project: | BRIO, F&BI 101276 |
| Date Collected: 01/20/21 | Lab ID: | 101276-03 |
| Date Analyzed: 01/21/21 | Data File: | 012112.D |
| Matrix: Air | Instrument: | GCMS10 |
| Units: ug/m3 | Operator: | bat |

| Compounds: | Concentration ug/m3 | Compounds: | Concentration ug/m3 |
|-----------------------------|------------------------|-----------------------------|------------------------|
| Dichlorodifluoromethane | 33 | 1,2-Dibromoethane (EDB) | <5 |
| Vinyl chloride | <5 | Chlorobenzene | <1 |
| 2-Propanol | <250 | Ethylbenzene | <5 |
| 1,1-Dichloroethene | <10 | 1,1,1,2-Tetrachloroethane | <5 |
| Hexane | <25 | m,p-Xylene | <10 |
| t-Butyl alcohol (TBA) | <250 | o-Xylene | <5 |
| Methyl t-butyl ether (MTBE) | <25 | Styrene | <5 |
| trans-1,2-Dichloroethene | <5 | Isopropylbenzene | <5 |
| 1,1-Dichloroethane | <5 | Bromoform | <5 |
| 2,2-Dichloropropane | <5 | n-Propylbenzene | <1 |
| cis-1,2-Dichloroethene | <5 | Bromobenzene | <1 |
| Chloroform | <5 | 1,3,5-Trimethylbenzene | <1 |
| 2-Butanone (MEK) | <25 | 1,1,2,2-Tetrachloroethane | <1 |
| 1,2-Dichloroethane (EDC) | <5 | 1,2,3-Trichloropropane | <1 |
| 1,1,1-Trichloroethane | 10 | 2-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <5 | 4-Chlorotoluene | <1 |
| Carbon tetrachloride | <5 | tert-Butylbenzene | <1 |
| Benzene | <20 | 1,2,4-Trimethylbenzene | 3.6 |
| Trichloroethene | 8.6 | sec-Butylbenzene | <1 |
| 1,2-Dichloropropane | <5 | p-Isopropyltoluene | <2 |
| Bromodichloromethane | <5 | 1,3-Dichlorobenzene | <1 |
| Dibromomethane | <5 | 1,4-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <5 | 1,2-Dichlorobenzene | <1 |
| cis-1,3-Dichloropropene | <5 | 1,2-Dibromo-3-chloropropane | <1 |
| Toluene | 7.7 | 1,2,4-Trichlorobenzene | <1 |
| trans-1,3-Dichloropropene | <1 | Hexachlorobutadiene | <1 |
| 1,1,2-Trichloroethane | <1 | Naphthalene | <1 |
| 2-Hexanone | <25 | 1,2,3-Trichlorobenzene | <5 |
| 1,3-Dichloropropane | <1 | 2-Methylnaphthalene | <10 |
| Tetrachloroethene | 30 | 1-Methylnaphthalene | <10 |
| Dibromochloromethane | <5 | Gasoline Range Organics | <2500 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-17

| | | |
|--------------------------------|-------------|------------------------|
| Client Sample ID: Method Blank | Client: | Point Source Solutions |
| Date Received: Not Applicable | Project: | BRIO, F&BI 101276 |
| Date Collected: Not Applicable | Lab ID: | 01-167 mb |
| Date Analyzed: 01/21/21 | Data File: | 012109.D |
| Matrix: Air | Instrument: | GCMS10 |
| Units: ug/m3 | Operator: | bat |

| Compounds: | Concentration ug/m3 | Compounds: | Concentration ug/m3 |
|-----------------------------|------------------------|-----------------------------|------------------------|
| Dichlorodifluoromethane | <25 | 1,2-Dibromoethane (EDB) | <5 |
| Vinyl chloride | <5 | Chlorobenzene | <1 |
| 2-Propanol | <250 | Ethylbenzene | <5 |
| 1,1-Dichloroethene | <10 | 1,1,1,2-Tetrachloroethane | <5 |
| Hexane | <25 | m,p-Xylene | <10 |
| t-Butyl alcohol (TBA) | <250 | o-Xylene | <5 |
| Methyl t-butyl ether (MTBE) | <25 | Styrene | <5 |
| trans-1,2-Dichloroethene | <5 | Isopropylbenzene | <5 |
| 1,1-Dichloroethane | <5 | Bromoform | <5 |
| 2,2-Dichloropropane | <5 | n-Propylbenzene | <1 |
| cis-1,2-Dichloroethene | <5 | Bromobenzene | <1 |
| Chloroform | <5 | 1,3,5-Trimethylbenzene | <1 |
| 2-Butanone (MEK) | <25 | 1,1,2,2-Tetrachloroethane | <1 |
| 1,2-Dichloroethane (EDC) | <5 | 1,2,3-Trichloropropane | <1 |
| 1,1,1-Trichloroethane | <5 | 2-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <5 | 4-Chlorotoluene | <1 |
| Carbon tetrachloride | <5 | tert-Butylbenzene | <1 |
| Benzene | <20 | 1,2,4-Trimethylbenzene | <1 |
| Trichloroethene | <1 | sec-Butylbenzene | <1 |
| 1,2-Dichloropropane | <5 | p-Isopropyltoluene | <2 |
| Bromodichloromethane | <5 | 1,3-Dichlorobenzene | <1 |
| Dibromomethane | <5 | 1,4-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <5 | 1,2-Dichlorobenzene | <1 |
| cis-1,3-Dichloropropene | <5 | 1,2-Dibromo-3-chloropropane | <1 |
| Toluene | <5 | 1,2,4-Trichlorobenzene | <1 |
| trans-1,3-Dichloropropene | <1 | Hexachlorobutadiene | <1 |
| 1,1,2-Trichloroethane | <1 | Naphthalene | <1 |
| 2-Hexanone | <25 | 1,2,3-Trichlorobenzene | <5 |
| 1,3-Dichloropropane | <1 | 2-Methylnaphthalene | <10 |
| Tetrachloroethene | <1 | 1-Methylnaphthalene | <10 |
| Dibromochloromethane | <5 | Gasoline Range Organics | <2500 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/28/21

Date Received: 01/21/21

Project: BRIO, F&BI 101276

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-17**

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------------------|-----------------|-------------|-------------------------|------------------------|
| Dichlorodifluoromethane | ng/tube | 50 | 81 | 70-130 |
| Vinyl chloride | ng/tube | 50 | 97 | 70-130 |
| 2-Propanol | ng/tube | 250 | 115 | 70-130 |
| 1,1-Dichloroethene | ng/tube | 50 | 98 | 70-130 |
| Hexane | ng/tube | 50 | 84 | 70-130 |
| t-Butyl alcohol (TBA) | ng/tube | 250 | 99 | 70-130 |
| Methyl t-butyl ether (MTBE) | ng/tube | 50 | 97 | 70-130 |
| trans-1,2-Dichloroethene | ng/tube | 50 | 100 | 70-130 |
| 1,1-Dichloroethane | ng/tube | 50 | 99 | 70-130 |
| 2,2-Dichloropropane | ng/tube | 50 | 99 | 70-130 |
| cis-1,2-Dichloroethene | ng/tube | 50 | 98 | 70-130 |
| Chloroform | ng/tube | 50 | 99 | 70-130 |
| 2-Butanone (MEK) | ng/tube | 50 | 91 | 70-130 |
| 1,2-Dichloroethane (EDC) | ng/tube | 50 | 98 | 70-130 |
| 1,1,1-Trichloroethane | ng/tube | 50 | 100 | 70-130 |
| 1,1-Dichloropropene | ng/tube | 50 | 95 | 70-130 |
| Carbon tetrachloride | ng/tube | 50 | 101 | 70-130 |
| Benzene | ng/tube | 50 | 87 | 70-130 |
| Trichloroethene | ng/tube | 50 | 100 | 70-130 |
| 1,2-Dichloropropane | ng/tube | 50 | 97 | 70-130 |
| Bromodichloromethane | ng/tube | 50 | 100 | 70-130 |
| Dibromomethane | ng/tube | 50 | 100 | 70-130 |
| 4-Methyl-2-pentanone | ng/tube | 50 | 95 | 70-130 |
| cis-1,3-Dichloropropene | ng/tube | 50 | 98 | 70-130 |
| Toluene | ng/tube | 50 | 93 | 70-130 |
| trans-1,3-Dichloropropene | ng/tube | 50 | 96 | 70-130 |
| 1,1,2-Trichloroethane | ng/tube | 50 | 92 | 70-130 |
| 2-Hexanone | ng/tube | 50 | 104 | 70-130 |
| 1,3-Dichloropropane | ng/tube | 50 | 93 | 70-130 |
| Tetrachloroethene | ng/tube | 50 | 97 | 70-130 |
| Dibromochloromethane | ng/tube | 50 | 99 | 70-130 |
| 1,2-Dibromoethane (EDB) | ng/tube | 50 | 97 | 70-130 |
| Chlorobenzene | ng/tube | 50 | 98 | 70-130 |
| Ethylbenzene | ng/tube | 50 | 95 | 70-130 |
| 1,1,1,2-Tetrachloroethane | ng/tube | 50 | 98 | 70-130 |
| m,p-Xylene | ng/tube | 100 | 97 | 70-130 |
| o-Xylene | ng/tube | 50 | 96 | 70-130 |
| Styrene | ng/tube | 50 | 94 | 70-130 |
| Isopropylbenzene | ng/tube | 50 | 95 | 70-130 |
| Bromoform | ng/tube | 50 | 98 | 70-130 |
| n-Propylbenzene | ng/tube | 50 | 95 | 70-130 |
| Bromobenzene | ng/tube | 50 | 98 | 70-130 |
| 1,3,5-Trimethylbenzene | ng/tube | 50 | 93 | 70-130 |
| 1,1,2,2-Tetrachloroethane | ng/tube | 50 | 93 | 70-130 |
| 1,2,3-Trichloropropane | ng/tube | 50 | 94 | 70-130 |
| 2-Chlorotoluene | ng/tube | 50 | 94 | 70-130 |
| 4-Chlorotoluene | ng/tube | 50 | 95 | 70-130 |
| tert-Butylbenzene | ng/tube | 50 | 94 | 70-130 |
| 1,2,4-Trimethylbenzene | ng/tube | 50 | 94 | 70-130 |
| sec-Butylbenzene | ng/tube | 50 | 95 | 70-130 |
| p-Isopropyltoluene | ng/tube | 50 | 95 | 70-130 |
| 1,3-Dichlorobenzene | ng/tube | 50 | 96 | 70-130 |
| 1,4-Dichlorobenzene | ng/tube | 50 | 96 | 70-130 |
| 1,2-Dichlorobenzene | ng/tube | 50 | 96 | 70-130 |
| 1,2-Dibromo-3-chloropropane | ng/tube | 50 | 89 | 70-130 |
| 1,2,4-Trichlorobenzene | ng/tube | 50 | 93 | 70-130 |
| Hexachlorobutadiene | ng/tube | 50 | 96 | 70-130 |
| Naphthalene | ng/tube | 50 | 93 | 70-130 |
| 1,2,3-Trichlorobenzene | ng/tube | 50 | 95 | 70-130 |
| 2-Methylnaphthalene | ng/tube | 50 | 90 | 70-130 |
| 1-Methylnaphthalene | ng/tube | 50 | 91 | 70-130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

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fbi@isomedia.com
www.friedmanandbruya.com

July 13, 2021

Gil Cobb, Project Manager
Point Source Solutions
10445 SW Canyon Rd., Ste. 266
Beaverton, OR 97005

Dear Mr Cobb:

Included are the results from the testing of material submitted on June 30, 2021 from the BRIO, F&BI 106541 project. There are 10 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Johnny@PointSourceSolutions.com
PSS0713R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 30, 2021 by Friedman & Bruya, Inc. from the Point Source Solutions BRIO, F&BI 106541 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>Point Source Solutions</u> |
|----------------------|-------------------------------|
| 106541 -01 | PS1 |
| 106541 -02 | SS1 |
| 106541 -03 | SS2 |

The TO-15 acetone and 2-Butanone (MEK) concentration for sample PS1 exceeded the calibration range. The data were flagged accordingly.

The TO-15 gasoline range organics concentration was determined using a single point calibration at 80 ppbv.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

| | | | |
|-------------------|----------|-------------|------------------------|
| Client Sample ID: | PS1 | Client: | Point Source Solutions |
| Date Received: | 06/30/21 | Project: | BRIO, F&BI 106541 |
| Date Collected: | 06/28/21 | Lab ID: | 106541-01 1/9.5 |
| Date Analyzed: | 07/07/21 | Data File: | 070715.D |
| Matrix: | Air | Instrument: | GCMS7 |
| Units: | ug/m3 | Operator: | bat |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: | | |
|-----------------------------|---------------|--------------|---------------------------|---------------|--------|
| 4-Bromofluorobenzene | 94 | 70 | 130 | | |
| Compounds: | Concentration | | Compounds: | Concentration | |
| | ug/m3 | ppbv | | ug/m3 | ppbv |
| Propene | <11 | <6.6 | 1,2-Dichloropropane | <2.2 | <0.47 |
| Dichlorodifluoromethane | 44 | 9.0 | 1,4-Dioxane | 3.7 | 1.0 |
| Chloromethane | <35 | <17 | 2,2,4-Trimethylpentane | <44 | <9.5 |
| F-114 | <6.6 | <0.95 | Methyl methacrylate | <39 | <9.5 |
| Vinyl chloride | <2.4 | <0.95 | Heptane | <39 | <9.5 |
| 1,3-Butadiene | <0.26 | <0.19 | Bromodichloromethane | <0.64 | <0.095 |
| Butane | <45 | <19 | Trichloroethene | 21 | 3.9 |
| Bromomethane | <22 | <5.7 | cis-1,3-Dichloropropene | <4.3 | <0.95 |
| Chloroethane | <25 | <9.5 | 4-Methyl-2-pentanone | <39 | <9.5 |
| Vinyl bromide | <4.2 | <0.95 | trans-1,3-Dichloropropene | <4.3 | <0.95 |
| Ethanol | <72 | <38 | Toluene | <180 | <47 |
| Acrolein | 1.1 | 0.48 | 1,1,2-Trichloroethane | 0.52 | 0.095 |
| Pentane | <28 | <9.5 | 2-Hexanone | <39 | <9.5 |
| Trichlorofluoromethane | <21 | <3.8 | Tetrachloroethene | 220 | 32 |
| Acetone | 11,000 ve | 4,500 ve | Dibromochloromethane | <0.81 | <0.095 |
| 2-Propanol | <82 | <33 | 1,2-Dibromoethane (EDB) | <0.73 | <0.095 |
| 1,1-Dichloroethene | 11 | 2.8 | Chlorobenzene | <4.4 | <0.95 |
| trans-1,2-Dichloroethene | <3.8 | <0.95 | Ethylbenzene | 17 | 3.9 |
| Methylene chloride | <330 | <95 | 1,1,2,2-Tetrachloroethane | <1.3 | <0.19 |
| t-Butyl alcohol (TBA) | 170 | 56 | Nonane | <50 | <9.5 |
| 3-Chloropropene | <15 | <4.7 | Isopropylbenzene | 89 | 18 |
| CFC-113 | <7.3 | <0.95 | 2-Chlorotoluene | <49 | <9.5 |
| Carbon disulfide | <59 | <19 | Propylbenzene | <23 | <4.7 |
| Methyl t-butyl ether (MTBE) | <17 | <4.7 | 4-Ethyltoluene | <23 | <4.7 |
| Vinyl acetate | <67 | <19 | m,p-Xylene | 40 | 9.3 |
| 1,1-Dichloroethane | <3.8 | <0.95 | o-Xylene | 24 | 5.5 |
| cis-1,2-Dichloroethene | <3.8 | <0.95 | Styrene | 78 | 18 |
| Hexane | 500 | 140 | Bromoform | <20 | <1.9 |
| Chloroform | 7.9 | 1.6 | Benzyl chloride | 0.79 | 0.15 |
| Ethyl acetate | <68 | <19 | 1,3,5-Trimethylbenzene | <23 | <4.7 |
| Tetrahydrofuran | 270 | 93 | 1,2,4-Trimethylbenzene | 29 | 6.0 |
| 2-Butanone (MEK) | 50,000 ve | 17,000 ve | 1,3-Dichlorobenzene | <5.7 | <0.95 |
| 1,2-Dichloroethane (EDC) | 1.2 | 0.29 | 1,4-Dichlorobenzene | <2.2 | <0.36 |
| 1,1,1-Trichloroethane | 28 | 5.2 | 1,2-Dichlorobenzene | <5.7 | <0.95 |
| Carbon tetrachloride | 3.3 | 0.53 | 1,2,4-Trichlorobenzene | <7.1 | <0.95 |
| Benzene | 71 | 22 | Naphthalene | <2.5 | <0.47 |
| Cyclohexane | <65 | <19 | Hexachlorobutadiene | <2 | <0.19 |
| Gasoline Range Organics | 17,000 | 4,200 | | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

| | |
|--------------------------|--------------------------------|
| Client Sample ID: SS1 | Client: Point Source Solutions |
| Date Received: 06/30/21 | Project: BRIO, F&BI 106541 |
| Date Collected: 06/28/21 | Lab ID: 106541-02 1/6 |
| Date Analyzed: 07/07/21 | Data File: 070714.D |
| Matrix: Air | Instrument: GCMS7 |
| Units: ug/m3 | Operator: bat |

| | % | Lower | Upper | | | |
|-----------------------------|---------------|--------|--------|---------------------------|---------------|-------|
| Surrogates: | Recovery: | Limit: | Limit: | | | |
| 4-Bromofluorobenzene | 90 | 70 | 130 | | | |
| | Concentration | | | | Concentration | |
| Compounds: | ug/m3 | ppbv | | Compounds: | ug/m3 | ppbv |
| Propene | <7.2 | <4.2 | | 1,2-Dichloropropane | <1.4 | <0.3 |
| Dichlorodifluoromethane | 38 | 7.6 | | 1,4-Dioxane | <2.2 | <0.6 |
| Chloromethane | <22 | <11 | | 2,2,4-Trimethylpentane | <28 | <6 |
| F-114 | <4.2 | <0.6 | | Methyl methacrylate | <25 | <6 |
| Vinyl chloride | <1.5 | <0.6 | | Heptane | <25 | <6 |
| 1,3-Butadiene | <0.27 | <0.12 | | Bromodichloromethane | <0.4 | <0.06 |
| Butane | <29 | <12 | | Trichloroethene | 19 | 3.6 |
| Bromomethane | <14 | <3.6 | | cis-1,3-Dichloropropene | <2.7 | <0.6 |
| Chloroethane | <16 | <6 | | 4-Methyl-2-pentanone | <25 | <6 |
| Vinyl bromide | <2.6 | <0.6 | | trans-1,3-Dichloropropene | <2.7 | <0.6 |
| Ethanol | 48 | 25 | | Toluene | <110 | <30 |
| Acrolein | 0.94 | 0.41 | | 1,1,2-Trichloroethane | <0.33 | <0.06 |
| Pentane | <18 | <6 | | 2-Hexanone | <25 | <6 |
| Trichlorofluoromethane | <13 | <2.4 | | Tetrachloroethene | 91 | 13 |
| Acetone | 150 | 62 | | Dibromochloromethane | <0.51 | <0.06 |
| 2-Propanol | <52 | <21 | | 1,2-Dibromoethane (EDB) | <0.46 | <0.06 |
| 1,1-Dichloroethene | 6.4 | 1.6 | | Chlorobenzene | <2.8 | <0.6 |
| trans-1,2-Dichloroethene | <2.4 | <0.6 | | Ethylbenzene | 8.2 | 1.9 |
| Methylene chloride | <210 | <60 | | 1,1,2,2-Tetrachloroethane | <0.82 | <0.12 |
| t-Butyl alcohol (TBA) | 81 | 27 | | Nonane | <31 | <6 |
| 3-Chloropropene | <9.4 | <3 | | Isopropylbenzene | <15 | <3 |
| CFC-113 | <4.6 | <0.6 | | 2-Chlorotoluene | <31 | <6 |
| Carbon disulfide | <37 | <12 | | Propylbenzene | <15 | <3 |
| Methyl t-butyl ether (MTBE) | <11 | <3 | | 4-Ethyltoluene | <15 | <3 |
| Vinyl acetate | <42 | <12 | | m,p-Xylene | 31 | 7.2 |
| 1,1-Dichloroethane | <2.4 | <0.6 | | o-Xylene | 13 | 3.1 |
| cis-1,2-Dichloroethene | <2.4 | <0.6 | | Styrene | 18 | 4.2 |
| Hexane | 320 | 89 | | Bromoform | <12 | <1.2 |
| Chloroform | 8.7 | 1.8 | | Benzyl chloride | 0.34 | 0.066 |
| Ethyl acetate | <43 | <12 | | 1,3,5-Trimethylbenzene | <15 | <3 |
| Tetrahydrofuran | 24 | 8.0 | | 1,2,4-Trimethylbenzene | <15 | <3 |
| 2-Butanone (MEK) | <18 | <6 | | 1,3-Dichlorobenzene | <3.6 | <0.6 |
| 1,2-Dichloroethane (EDC) | <0.24 | <0.06 | | 1,4-Dichlorobenzene | <1.4 | <0.23 |
| 1,1,1-Trichloroethane | 27 | 4.9 | | 1,2-Dichlorobenzene | <3.6 | <0.6 |
| Carbon tetrachloride | 3.1 | 0.49 | | 1,2,4-Trichlorobenzene | <4.5 | <0.6 |
| Benzene | 2.8 | 0.86 | | Naphthalene | 1.7 | 0.32 |
| Cyclohexane | <41 | <12 | | Hexachlorobutadiene | <1.3 | <0.12 |
| Gasoline Range Organics | 7,400 | 1,800 | | | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

| | | | |
|-------------------|----------|-------------|------------------------|
| Client Sample ID: | SS2 | Client: | Point Source Solutions |
| Date Received: | 06/30/21 | Project: | BRIO, F&BI 106541 |
| Date Collected: | 06/28/21 | Lab ID: | 106541-03 1/5.9 |
| Date Analyzed: | 07/07/21 | Data File: | 070712.D |
| Matrix: | Air | Instrument: | GCMS7 |
| Units: | ug/m3 | Operator: | bat |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: | | |
|-----------------------------|---------------|--------------|---------------------------|---------------|--------|
| 4-Bromofluorobenzene | 89 | 70 | 130 | | |
| Compounds: | Concentration | | Compounds: | Concentration | |
| | ug/m3 | ppbv | | ug/m3 | ppbv |
| Propene | <7.1 | <4.1 | 1,2-Dichloropropane | <1.4 | <0.29 |
| Dichlorodifluoromethane | 35 | 7.0 | 1,4-Dioxane | <2.1 | <0.59 |
| Chloromethane | <22 | <11 | 2,2,4-Trimethylpentane | <28 | <5.9 |
| F-114 | <4.1 | <0.59 | Methyl methacrylate | <24 | <5.9 |
| Vinyl chloride | <1.5 | <0.59 | Heptane | <24 | <5.9 |
| 1,3-Butadiene | <0.26 | <0.12 | Bromodichloromethane | <0.4 | <0.059 |
| Butane | <28 | <12 | Trichloroethene | 20 | 3.8 |
| Bromomethane | <14 | <3.5 | cis-1,3-Dichloropropene | <2.7 | <0.59 |
| Chloroethane | <16 | <5.9 | 4-Methyl-2-pentanone | <24 | <5.9 |
| Vinyl bromide | <2.6 | <0.59 | trans-1,3-Dichloropropene | <2.7 | <0.59 |
| Ethanol | <44 | <24 | Toluene | <110 | <29 |
| Acrolein | <0.65 | <0.3 | 1,1,2-Trichloroethane | <0.32 | <0.059 |
| Pentane | <17 | <5.9 | 2-Hexanone | <24 | <5.9 |
| Trichlorofluoromethane | <13 | <2.4 | Tetrachloroethene | 170 | 25 |
| Acetone | 35 | 15 | Dibromochloromethane | <0.5 | <0.059 |
| 2-Propanol | <51 | <21 | 1,2-Dibromoethane (EDB) | <0.45 | <0.059 |
| 1,1-Dichloroethene | 19 | 4.9 | Chlorobenzene | <2.7 | <0.59 |
| trans-1,2-Dichloroethene | <2.3 | <0.59 | Ethylbenzene | 4.3 | 0.99 |
| Methylene chloride | <200 | <59 | 1,1,2,2-Tetrachloroethane | <0.81 | <0.12 |
| t-Butyl alcohol (TBA) | <72 | <24 | Nonane | <31 | <5.9 |
| 3-Chloropropene | <9.2 | <2.9 | Isopropylbenzene | <15 | <2.9 |
| CFC-113 | <4.5 | <0.59 | 2-Chlorotoluene | <31 | <5.9 |
| Carbon disulfide | <37 | <12 | Propylbenzene | <15 | <2.9 |
| Methyl t-butyl ether (MTBE) | <11 | <2.9 | 4-Ethyltoluene | <15 | <2.9 |
| Vinyl acetate | <42 | <12 | m,p-Xylene | 16 | 3.7 |
| 1,1-Dichloroethane | <2.4 | <0.59 | o-Xylene | 7.0 | 1.6 |
| cis-1,2-Dichloroethene | <2.3 | <0.59 | Styrene | 10 | 2.4 |
| Hexane | 130 | 35 | Bromoform | <12 | <1.2 |
| Chloroform | 3.8 | 0.78 | Benzyl chloride | 0.34 | 0.065 |
| Ethyl acetate | <43 | <12 | 1,3,5-Trimethylbenzene | <15 | <2.9 |
| Tetrahydrofuran | 12 | 4.0 | 1,2,4-Trimethylbenzene | <15 | <2.9 |
| 2-Butanone (MEK) | <17 | <5.9 | 1,3-Dichlorobenzene | <3.5 | <0.59 |
| 1,2-Dichloroethane (EDC) | <0.24 | <0.059 | 1,4-Dichlorobenzene | <1.3 | <0.22 |
| 1,1,1-Trichloroethane | 24 | 4.3 | 1,2-Dichlorobenzene | <3.5 | <0.59 |
| Carbon tetrachloride | 3.1 | 0.49 | 1,2,4-Trichlorobenzene | <4.4 | <0.59 |
| Benzene | <1.9 | <0.59 | Naphthalene | 1.7 | 0.33 |
| Cyclohexane | <41 | <12 | Hexachlorobutadiene | <1.3 | <0.12 |
| Gasoline Range Organics | 3,900 | 950 | | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

| | | | |
|-------------------|----------------|-------------|------------------------|
| Client Sample ID: | Method Blank | Client: | Point Source Solutions |
| Date Received: | Not Applicable | Project: | BRIO, F&BI 106541 |
| Date Collected: | Not Applicable | Lab ID: | 01-1515 MB |
| Date Analyzed: | 07/07/21 | Data File: | 070711.D |
| Matrix: | Air | Instrument: | GCMS7 |
| Units: | ug/m3 | Operator: | bat |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: | | |
|-----------------------------|---------------|--------------|---------------------------|---------------|----------|
| 4-Bromofluorobenzene | 89 | 70 | 130 | | |
| Compounds: | Concentration | | Compounds: | Concentration | |
| | ug/m3 | ppbv | | ug/m3 | ppbv |
| Propene | <1.2 | <0.7 | 1,2-Dichloropropane | <0.23 | <0.05 |
| Dichlorodifluoromethane | <0.49 | <0.1 | 1,4-Dioxane | <0.36 | <0.1 |
| Chloromethane | <3.7 | <1.8 | 2,2,4-Trimethylpentane | <4.7 | <1 |
| F-114 | <0.7 | <0.1 | Methyl methacrylate | <4.1 | <1 |
| Vinyl chloride | <0.26 | <0.1 | Heptane | <4.1 | <1 |
| 1,3-Butadiene | <0.044 | <0.02 | Bromodichloromethane | <0.067 | <0.01 |
| Butane | <4.8 | <2 | Trichloroethene | <0.11 | <0.02 |
| Bromomethane | <2.3 | <0.6 | cis-1,3-Dichloropropene | <0.45 | <0.1 |
| Chloroethane | <2.6 | <1 | 4-Methyl-2-pentanone | <4.1 | <1 |
| Vinyl bromide | <0.44 | <0.1 | trans-1,3-Dichloropropene | <0.45 | <0.1 |
| Ethanol | <7.5 | <4 | Toluene | <19 | <5 |
| Acrolein | <0.11 | <0.05 | 1,1,2-Trichloroethane | <0.055 | <0.01 |
| Pentane | <3 | <1 | 2-Hexanone | <4.1 | <1 |
| Trichlorofluoromethane | <2.2 | <0.4 | Tetrachloroethene | <6.8 | <1 |
| Acetone | <4.8 | <2 | Dibromochloromethane | <0.085 | <0.01 |
| 2-Propanol | <8.6 | <3.5 | 1,2-Dibromoethane (EDB) | <0.077 | <0.01 |
| 1,1-Dichloroethene | <0.4 | <0.1 | Chlorobenzene | <0.46 | <0.1 |
| trans-1,2-Dichloroethene | <0.4 | <0.1 | Ethylbenzene | <0.43 | <0.1 |
| Methylene chloride | <35 | <10 | 1,1,2,2-Tetrachloroethane | <0.14 | <0.02 |
| t-Butyl alcohol (TBA) | <12 | <4 | Nonane | <5.2 | <1 |
| 3-Chloropropene | <1.6 | <0.5 | Isopropylbenzene | <2.5 | <0.5 |
| CFC-113 | <0.77 | <0.1 | 2-Chlorotoluene | <5.2 | <1 |
| Carbon disulfide | <6.2 | <2 | Propylbenzene | <2.5 | <0.5 |
| Methyl t-butyl ether (MTBE) | <1.8 | <0.5 | 4-Ethyltoluene | <2.5 | <0.5 |
| Vinyl acetate | <7 | <2 | m,p-Xylene | <0.87 | <0.2 |
| 1,1-Dichloroethane | <0.4 | <0.1 | o-Xylene | <0.43 | <0.1 |
| cis-1,2-Dichloroethene | <0.4 | <0.1 | Styrene | <0.85 | <0.2 |
| Hexane | <3.5 | <1 | Bromoform | <2.1 | <0.2 |
| Chloroform | <0.049 | <0.01 | Benzyl chloride | <0.052 | <0.01 |
| Ethyl acetate | <7.2 | <2 | 1,3,5-Trimethylbenzene | <2.5 | <0.5 |
| Tetrahydrofuran | <0.59 | <0.2 | 1,2,4-Trimethylbenzene | <2.5 | <0.5 |
| 2-Butanone (MEK) | <2.9 | <1 | 1,3-Dichlorobenzene | <0.6 | <0.1 |
| 1,2-Dichloroethane (EDC) | <0.04 | <0.01 | 1,4-Dichlorobenzene | <0.23 | <0.038 |
| 1,1,1-Trichloroethane | <0.55 | <0.1 | 1,2-Dichlorobenzene | <0.6 | <0.1 |
| Carbon tetrachloride | <0.31 | <0.05 | 1,2,4-Trichlorobenzene | <0.74 | <0.1 |
| Benzene | <0.32 | <0.1 | Naphthalene | <0.26 | <0.05 |
| Cyclohexane | <6.9 | <2 | Hexachlorobutadiene | 0.21 lc | 0.020 lc |
| Gasoline Range Organics | <330 | <80 | | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/13/21

Date Received: 06/30/21

Project: BRIO, F&BI 106541

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: 106541-03 1/5.9 (Duplicate)

| Analyte | Reporting Units | Sample Result | Duplicate Result | RPD (Limit 30) |
|-----------------------------|-----------------|---------------|------------------|----------------|
| Propene | ug/m3 | <7.1 | <7.1 | nm |
| Dichlorodifluoromethane | ug/m3 | 35 | 38 | 8 |
| Chloromethane | ug/m3 | <22 | <22 | nm |
| F-114 | ug/m3 | <4.1 | <4.1 | nm |
| Vinyl chloride | ug/m3 | <1.5 | <1.5 | nm |
| 1,3-Butadiene | ug/m3 | <0.26 | <0.26 | nm |
| Butane | ug/m3 | <28 | <28 | nm |
| Bromomethane | ug/m3 | <14 | <14 | nm |
| Chloroethane | ug/m3 | <16 | <16 | nm |
| Vinyl bromide | ug/m3 | <2.6 | <2.6 | nm |
| Ethanol | ug/m3 | <44 | <44 | nm |
| Acrolein | ug/m3 | <0.65 | <0.65 | nm |
| Pentane | ug/m3 | <17 | <17 | nm |
| Trichlorofluoromethane | ug/m3 | <13 | <13 | nm |
| Acetone | ug/m3 | 35 | 34 | 3 |
| 2-Propanol | ug/m3 | <51 | <51 | nm |
| 1,1-Dichloroethene | ug/m3 | 19 | 19 | 0 |
| trans-1,2-Dichloroethene | ug/m3 | <2.3 | <2.3 | nm |
| Methylene chloride | ug/m3 | <200 | <200 | nm |
| t-Butyl alcohol (TBA) | ug/m3 | <72 | <72 | nm |
| 3-Chloropropene | ug/m3 | <9.2 | <9.2 | nm |
| CFC-113 | ug/m3 | <4.5 | <4.5 | nm |
| Carbon disulfide | ug/m3 | <37 | <37 | nm |
| Methyl t-butyl ether (MTBE) | ug/m3 | <11 | <11 | nm |
| Vinyl acetate | ug/m3 | <42 | <42 | nm |
| 1,1-Dichloroethane | ug/m3 | <2.4 | <2.4 | nm |
| cis-1,2-Dichloroethene | ug/m3 | <2.3 | <2.3 | nm |
| Hexane | ug/m3 | 130 | 120 | 8 |
| Chloroform | ug/m3 | 3.8 | 3.8 | 0 |
| Ethyl acetate | ug/m3 | <43 | <43 | nm |
| Tetrahydrofuran | ug/m3 | 12 | 12 | 0 |
| 2-Butanone (MEK) | ug/m3 | <17 | <17 | nm |
| 1,2-Dichloroethane (EDC) | ug/m3 | <0.24 | <0.24 | nm |
| 1,1,1-Trichloroethane | ug/m3 | 24 | 24 | 0 |
| Carbon tetrachloride | ug/m3 | 3.1 | 3.1 | 0 |
| Benzene | ug/m3 | <1.9 | <1.9 | nm |
| Cyclohexane | ug/m3 | <41 | <41 | nm |
| 1,2-Dichloropropane | ug/m3 | <1.4 | <1.4 | nm |
| 1,4-Dioxane | ug/m3 | <2.1 | <2.1 | nm |
| 2,2,4-Trimethylpentane | ug/m3 | <28 | <28 | nm |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/13/21

Date Received: 06/30/21

Project: BRIO, F&BI 106541

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: 106541-03 1/5.9 (Duplicate) (continued)

| Analyte | Reporting Units | Sample Result | Duplicate Result | RPD (Limit 30) |
|---------------------------|-----------------|---------------|------------------|----------------|
| Methyl methacrylate | ug/m3 | <24 | <24 | nm |
| Heptane | ug/m3 | <24 | <24 | nm |
| Bromodichloromethane | ug/m3 | <0.4 | <0.4 | nm |
| Trichloroethene | ug/m3 | 20 | 21 | 5 |
| cis-1,3-Dichloropropene | ug/m3 | <2.7 | <2.7 | nm |
| 4-Methyl-2-pentanone | ug/m3 | <24 | <24 | nm |
| trans-1,3-Dichloropropene | ug/m3 | <2.7 | <2.7 | nm |
| Toluene | ug/m3 | <110 | <110 | nm |
| 1,1,2-Trichloroethane | ug/m3 | <0.32 | <0.32 | nm |
| 2-Hexanone | ug/m3 | <24 | <24 | nm |
| Tetrachloroethene | ug/m3 | 170 | 170 | 0 |
| Dibromochloromethane | ug/m3 | <0.5 | <0.5 | nm |
| 1,2-Dibromoethane (EDB) | ug/m3 | <0.45 | <0.45 | nm |
| Chlorobenzene | ug/m3 | <2.7 | <2.7 | nm |
| Ethylbenzene | ug/m3 | 4.3 | 4.4 | 2 |
| 1,1,2,2-Tetrachloroethane | ug/m3 | <0.81 | <0.81 | nm |
| Nonane | ug/m3 | <31 | <31 | nm |
| Isopropylbenzene | ug/m3 | <15 | <15 | nm |
| 2-Chlorotoluene | ug/m3 | <31 | <31 | nm |
| Propylbenzene | ug/m3 | <15 | <15 | nm |
| 4-Ethyltoluene | ug/m3 | <15 | <15 | nm |
| m,p-Xylene | ug/m3 | 16 | 16 | 0 |
| o-Xylene | ug/m3 | 7.0 | 7.8 | 11 |
| Styrene | ug/m3 | 10 | 9.8 | 2 |
| Bromoform | ug/m3 | <12 | <12 | nm |
| Benzyl chloride | ug/m3 | 0.34 | 0.40 | 16 |
| 1,3,5-Trimethylbenzene | ug/m3 | <15 | <15 | nm |
| 1,2,4-Trimethylbenzene | ug/m3 | <15 | <15 | nm |
| 1,3-Dichlorobenzene | ug/m3 | <3.5 | <3.5 | nm |
| 1,4-Dichlorobenzene | ug/m3 | <1.3 | <1.3 | nm |
| 1,2-Dichlorobenzene | ug/m3 | <3.5 | <3.5 | nm |
| 1,2,4-Trichlorobenzene | ug/m3 | <4.4 | <4.4 | nm |
| Naphthalene | ug/m3 | 1.7 | 1.9 | 11 |
| Hexachlorobutadiene | ug/m3 | <1.3 | <1.3 | nm |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/13/21

Date Received: 06/30/21

Project: BRIO, F&BI 106541

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent | Acceptance |
|-----------------------------|--------------------|----------------|-----------------|------------|
| | | | Recovery LCS | Criteria |
| Propene | ug/m3 | 23 | 109 | 70-130 |
| Dichlorodifluoromethane | ug/m3 | 67 | 111 | 70-130 |
| Chloromethane | ug/m3 | 28 | 112 | 70-130 |
| F-114 | ug/m3 | 94 | 107 | 70-130 |
| Vinyl chloride | ug/m3 | 35 | 93 | 70-130 |
| 1,3-Butadiene | ug/m3 | 30 | 90 | 70-130 |
| Butane | ug/m3 | 32 | 98 | 70-130 |
| Bromomethane | ug/m3 | 52 | 108 | 70-130 |
| Chloroethane | ug/m3 | 36 | 104 | 70-130 |
| Vinyl bromide | ug/m3 | 59 | 105 | 70-130 |
| Ethanol | ug/m3 | 25 | 92 | 70-130 |
| Acrolein | ug/m3 | 31 | 102 | 70-130 |
| Pentane | ug/m3 | 40 | 90 | 70-130 |
| Trichlorofluoromethane | ug/m3 | 76 | 104 | 70-130 |
| Acetone | ug/m3 | 32 | 97 | 70-130 |
| 2-Propanol | ug/m3 | 33 | 91 | 70-130 |
| 1,1-Dichloroethene | ug/m3 | 54 | 101 | 70-130 |
| trans-1,2-Dichloroethene | ug/m3 | 54 | 97 | 70-130 |
| Methylene chloride | ug/m3 | 94 | 95 | 70-130 |
| t-Butyl alcohol (TBA) | ug/m3 | 41 | 94 | 70-130 |
| 3-Chloropropene | ug/m3 | 42 | 91 | 70-130 |
| CFC-113 | ug/m3 | 100 | 108 | 70-130 |
| Carbon disulfide | ug/m3 | 42 | 106 | 70-130 |
| Methyl t-butyl ether (MTBE) | ug/m3 | 49 | 84 | 70-130 |
| Vinyl acetate | ug/m3 | 48 | 79 | 70-130 |
| 1,1-Dichloroethane | ug/m3 | 55 | 102 | 70-130 |
| cis-1,2-Dichloroethene | ug/m3 | 54 | 94 | 70-130 |
| Hexane | ug/m3 | 48 | 79 | 70-130 |
| Chloroform | ug/m3 | 66 | 102 | 70-130 |
| Ethyl acetate | ug/m3 | 49 | 101 | 70-130 |
| Tetrahydrofuran | ug/m3 | 40 | 86 | 70-130 |
| 2-Butanone (MEK) | ug/m3 | 40 | 88 | 70-130 |
| 1,2-Dichloroethane (EDC) | ug/m3 | 55 | 100 | 70-130 |
| 1,1,1-Trichloroethane | ug/m3 | 74 | 104 | 70-130 |
| Carbon tetrachloride | ug/m3 | 85 | 105 | 70-130 |
| Benzene | ug/m3 | 43 | 93 | 70-130 |
| Cyclohexane | ug/m3 | 46 | 83 | 70-130 |
| 1,2-Dichloropropane | ug/m3 | 62 | 108 | 70-130 |
| 1,4-Dioxane | ug/m3 | 49 | 98 | 70-130 |
| 2,2,4-Trimethylpentane | ug/m3 | 63 | 96 | 70-130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/13/21

Date Received: 06/30/21

Project: BRIO, F&BI 106541

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: Laboratory Control Sample (continued)

| Analyte | Reporting Units | Spike Level | Percent | Acceptance Criteria |
|---------------------------|--------------------|----------------|-----------------|------------------------|
| | | | Recovery LCS | |
| Methyl methacrylate | ug/m3 | 55 | 104 | 70-130 |
| Heptane | ug/m3 | 55 | 97 | 70-130 |
| Bromodichloromethane | ug/m3 | 90 | 114 | 70-130 |
| Trichloroethene | ug/m3 | 73 | 107 | 70-130 |
| cis-1,3-Dichloropropene | ug/m3 | 61 | 104 | 70-130 |
| 4-Methyl-2-pentanone | ug/m3 | 55 | 98 | 70-130 |
| trans-1,3-Dichloropropene | ug/m3 | 61 | 105 | 70-130 |
| Toluene | ug/m3 | 51 | 102 | 70-130 |
| 1,1,2-Trichloroethane | ug/m3 | 74 | 115 | 70-130 |
| 2-Hexanone | ug/m3 | 55 | 104 | 70-130 |
| Tetrachloroethene | ug/m3 | 92 | 126 | 70-130 |
| Dibromochloromethane | ug/m3 | 120 | 118 | 70-130 |
| 1,2-Dibromoethane (EDB) | ug/m3 | 100 | 104 | 70-130 |
| Chlorobenzene | ug/m3 | 62 | 104 | 70-130 |
| Ethylbenzene | ug/m3 | 59 | 86 | 70-130 |
| 1,1,2,2-Tetrachloroethane | ug/m3 | 93 | 104 | 70-130 |
| Nonane | ug/m3 | 71 | 92 | 70-130 |
| Isopropylbenzene | ug/m3 | 66 | 109 | 70-130 |
| 2-Chlorotoluene | ug/m3 | 70 | 99 | 70-130 |
| Propylbenzene | ug/m3 | 66 | 93 | 70-130 |
| 4-Ethyltoluene | ug/m3 | 66 | 89 | 70-130 |
| m,p-Xylene | ug/m3 | 120 | 93 | 70-130 |
| o-Xylene | ug/m3 | 59 | 97 | 70-130 |
| Styrene | ug/m3 | 58 | 91 | 70-130 |
| Bromoform | ug/m3 | 140 | 120 | 70-130 |
| Benzyl chloride | ug/m3 | 70 | 115 | 70-130 |
| 1,3,5-Trimethylbenzene | ug/m3 | 66 | 101 | 70-130 |
| 1,2,4-Trimethylbenzene | ug/m3 | 66 | 89 | 70-130 |
| 1,3-Dichlorobenzene | ug/m3 | 81 | 112 | 70-130 |
| 1,4-Dichlorobenzene | ug/m3 | 81 | 106 | 70-130 |
| 1,2-Dichlorobenzene | ug/m3 | 81 | 107 | 70-130 |
| 1,2,4-Trichlorobenzene | ug/m3 | 100 | 98 | 70-130 |
| Naphthalene | ug/m3 | 71 | 91 | 70-130 |
| Hexachlorobutadiene | ug/m3 | 140 | 119 | 70-130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
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December 15, 2021

Gil Cobb, Project Manager
Point Source Solutions
10445 SW Canyon Rd., Ste. 266
Beaverton, OR 97005

Dear Mr Cobb:

Included are the results from the testing of material submitted on December 6, 2021 from the 3912 N Vancouver Ave, F&BI 112088 project. There are 10 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Johnny Ramus, Jeff Jackman, Kyle Fisher
PSS1215R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on December 6, 2021 by Friedman & Bruya, Inc. from the Point Source Solutions 3912 N Vancouver Ave, F&BI 112088 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>Point Source Solutions</u> |
|----------------------|-------------------------------|
| 112088 -01 | PS1 |
| 112088 -02 | SS1 |
| 112088 -03 | SS2 |

The TO-15 gasoline range concentrations were quantified using a single point calibration at 80 ppbv.

The concentration of several analytes exceeded the calibration range of the instrument. The data were flagged accordingly.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

| | |
|--------------------------|--------------------------------|
| Client Sample ID: PS1 | Client: Point Source Solutions |
| Date Received: 12/06/21 | Project: 3912 N Vancouver Ave |
| Date Collected: 12/03/21 | Lab ID: 112088-01 1/5.5 |
| Date Analyzed: 12/10/21 | Data File: 120924.D |
| Matrix: Air | Instrument: GCMS7 |
| Units: ug/m3 | Operator: bat |

| | % Recovery: | Lower Limit: | Upper Limit: |
|----------------------|-------------|--------------|--------------|
| Surrogates: | | | |
| 4-Bromofluorobenzene | 90 | 70 | 130 |

| Compounds: | Concentration | | Compounds: | Concentration | |
|-----------------------------|---------------|--------|---------------------------|---------------|--------|
| | ug/m3 | ppbv | | ug/m3 | ppbv |
| Propene | <6.6 | <3.8 | 1,2-Dichloropropane | <1.3 | <0.28 |
| Dichlorodifluoromethane | 2.8 | 0.56 | 1,4-Dioxane | <2 | <0.55 |
| Chloromethane | <20 | <9.9 | 2,2,4-Trimethylpentane | 32 | 6.8 |
| F-114 | <3.8 | <0.55 | Methyl methacrylate | <23 | <5.5 |
| Vinyl chloride | <1.4 | <0.55 | Heptane | <23 | <5.5 |
| 1,3-Butadiene | <0.24 | <0.11 | Bromodichloromethane | <0.37 | <0.055 |
| Butane | 27 | 11 | Trichloroethene | 1.5 | 0.28 |
| Bromomethane | <13 | <3.3 | cis-1,3-Dichloropropene | <2.5 | <0.55 |
| Chloroethane | <15 | <5.5 | 4-Methyl-2-pentanone | <23 | <5.5 |
| Vinyl bromide | <2.4 | <0.55 | trans-1,3-Dichloropropene | <2.5 | <0.55 |
| Ethanol | <41 | <22 | Toluene | 230 ve | 62 ve |
| Acrolein | <0.63 | <0.28 | 1,1,2-Trichloroethane | <0.3 | <0.055 |
| Pentane | <16 | <5.5 | 2-Hexanone | <23 | <5.5 |
| Trichlorofluoromethane | <12 | <2.2 | Tetrachloroethene | <37 | <5.5 |
| Acetone | 170 ve | 72 ve | Dibromochloromethane | <0.47 | <0.055 |
| 2-Propanol | <47 | <19 | 1,2-Dibromoethane (EDB) | <0.42 | <0.055 |
| 1,1-Dichloroethene | <2.2 | <0.55 | Chlorobenzene | <2.5 | <0.55 |
| trans-1,2-Dichloroethene | <2.2 | <0.55 | Ethylbenzene | 20 | 4.5 |
| Methylene chloride | <190 | <55 | 1,1,2,2-Tetrachloroethane | <0.76 | <0.11 |
| t-Butyl alcohol (TBA) | <67 | <22 | Nonane | <29 | <5.5 |
| 3-Chloropropene | <8.6 | <2.7 | Isopropylbenzene | 29 | 6.0 |
| CFC-113 | <4.2 | <0.55 | 2-Chlorotoluene | <28 | <5.5 |
| Carbon disulfide | <34 | <11 | Propylbenzene | <14 | <2.7 |
| Methyl t-butyl ether (MTBE) | <9.9 | <2.7 | 4-Ethyltoluene | <14 | <2.7 |
| Vinyl acetate | <39 | <11 | m,p-Xylene | 80 | 18 |
| 1,1-Dichloroethane | <2.2 | <0.55 | o-Xylene | 24 | 5.5 |
| cis-1,2-Dichloroethene | <2.2 | <0.55 | Styrene | <4.7 | <1.1 |
| Hexane | <19 | <5.5 | Bromoform | <11 | <1.1 |
| Chloroform | 3.3 | 0.67 | Benzyl chloride | <0.28 | <0.055 |
| Ethyl acetate | <40 | <11 | 1,3,5-Trimethylbenzene | <14 | <2.7 |
| Tetrahydrofuran | <3.2 | <1.1 | 1,2,4-Trimethylbenzene | <14 | <2.7 |
| 2-Butanone (MEK) | 590 ve | 200 ve | 1,3-Dichlorobenzene | <3.3 | <0.55 |
| 1,2-Dichloroethane (EDC) | <0.22 | <0.055 | 1,4-Dichlorobenzene | <1.3 | <0.21 |
| 1,1,1-Trichloroethane | <3 | <0.55 | 1,2-Dichlorobenzene | <3.3 | <0.55 |
| Carbon tetrachloride | <1.7 | <0.28 | 1,2,4-Trichlorobenzene | <4.1 | <0.55 |
| Benzene | 60 | 19 | Naphthalene | <1.4 | <0.28 |
| Cyclohexane | <38 | <11 | Hexachlorobutadiene | <1.2 | <0.11 |
| Gasoline Range Organics | 2,100 | 520 | | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

| | | | |
|-------------------|----------|-------------|------------------------|
| Client Sample ID: | SS1 | Client: | Point Source Solutions |
| Date Received: | 12/06/21 | Project: | 3912 N Vancouver Ave |
| Date Collected: | 12/03/21 | Lab ID: | 112088-02 1/5.6 |
| Date Analyzed: | 12/10/21 | Data File: | 120926.D |
| Matrix: | Air | Instrument: | GCMS7 |
| Units: | ug/m3 | Operator: | bat |

| | | | |
|----------------------|-----------|--------|--------|
| | % | Lower | Upper |
| Surrogates: | Recovery: | Limit: | Limit: |
| 4-Bromofluorobenzene | 87 | 70 | 130 |

| Compounds: | Concentration | | Compounds: | Concentration | |
|-----------------------------|---------------|--------|---------------------------|---------------|--------|
| | ug/m3 | ppbv | | ug/m3 | ppbv |
| Propene | <6.7 | <3.9 | 1,2-Dichloropropane | <1.3 | <0.28 |
| Dichlorodifluoromethane | <2.8 | <0.56 | 1,4-Dioxane | <2 | <0.56 |
| Chloromethane | <21 | <10 | 2,2,4-Trimethylpentane | <26 | <5.6 |
| F-114 | <3.9 | <0.56 | Methyl methacrylate | <23 | <5.6 |
| Vinyl chloride | <1.4 | <0.56 | Heptane | <23 | <5.6 |
| 1,3-Butadiene | <0.25 | <0.11 | Bromodichloromethane | <0.38 | <0.056 |
| Butane | <27 | <11 | Trichloroethene | <0.6 | <0.11 |
| Bromomethane | <13 | <3.4 | cis-1,3-Dichloropropene | <2.5 | <0.56 |
| Chloroethane | <15 | <5.6 | 4-Methyl-2-pentanone | <23 | <5.6 |
| Vinyl bromide | <2.4 | <0.56 | trans-1,3-Dichloropropene | <2.5 | <0.56 |
| Ethanol | <42 | <22 | Toluene | 130 | 35 |
| Acrolein | <0.64 | <0.28 | 1,1,2-Trichloroethane | <0.31 | <0.056 |
| Pentane | <17 | <5.6 | 2-Hexanone | <23 | <5.6 |
| Trichlorofluoromethane | <13 | <2.2 | Tetrachloroethene | <38 | <5.6 |
| Acetone | <27 | <11 | Dibromochloromethane | <0.48 | <0.056 |
| 2-Propanol | <48 | <20 | 1,2-Dibromoethane (EDB) | <0.43 | <0.056 |
| 1,1-Dichloroethene | <2.2 | <0.56 | Chlorobenzene | <2.6 | <0.56 |
| trans-1,2-Dichloroethene | <2.2 | <0.56 | Ethylbenzene | 11 | 2.6 |
| Methylene chloride | <190 | <56 | 1,1,2,2-Tetrachloroethane | <0.77 | <0.11 |
| t-Butyl alcohol (TBA) | <68 | <22 | Nonane | <29 | <5.6 |
| 3-Chloropropene | <8.8 | <2.8 | Isopropylbenzene | <14 | <2.8 |
| CFC-113 | <4.3 | <0.56 | 2-Chlorotoluene | <29 | <5.6 |
| Carbon disulfide | <35 | <11 | Propylbenzene | <14 | <2.8 |
| Methyl t-butyl ether (MTBE) | <10 | <2.8 | 4-Ethyltoluene | <14 | <2.8 |
| Vinyl acetate | <39 | <11 | m,p-Xylene | 46 | 11 |
| 1,1-Dichloroethane | <2.3 | <0.56 | o-Xylene | 14 | 3.3 |
| cis-1,2-Dichloroethene | <2.2 | <0.56 | Styrene | <4.8 | <1.1 |
| Hexane | <20 | <5.6 | Bromoform | <12 | <1.1 |
| Chloroform | <0.27 | <0.056 | Benzyl chloride | <0.29 | <0.056 |
| Ethyl acetate | <40 | <11 | 1,3,5-Trimethylbenzene | <14 | <2.8 |
| Tetrahydrofuran | <3.3 | <1.1 | 1,2,4-Trimethylbenzene | <14 | <2.8 |
| 2-Butanone (MEK) | <17 | <5.6 | 1,3-Dichlorobenzene | <3.4 | <0.56 |
| 1,2-Dichloroethane (EDC) | <0.23 | <0.056 | 1,4-Dichlorobenzene | <1.3 | <0.21 |
| 1,1,1-Trichloroethane | <3.1 | <0.56 | 1,2-Dichlorobenzene | <3.4 | <0.56 |
| Carbon tetrachloride | <1.8 | <0.28 | 1,2,4-Trichlorobenzene | <4.2 | <0.56 |
| Benzene | 4.8 | 1.5 | Naphthalene | <1.5 | <0.28 |
| Cyclohexane | <39 | <11 | Hexachlorobutadiene | <1.2 | <0.11 |
| Gasoline Range Organics | <1,800 | <450 | | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

| | | | |
|-------------------|----------|-------------|------------------------|
| Client Sample ID: | SS2 | Client: | Point Source Solutions |
| Date Received: | 12/06/21 | Project: | 3912 N Vancouver Ave |
| Date Collected: | 12/03/21 | Lab ID: | 112088-03 1/5.6 |
| Date Analyzed: | 12/10/21 | Data File: | 120927.D |
| Matrix: | Air | Instrument: | GCMS7 |
| Units: | ug/m3 | Operator: | bat |

| | | | |
|----------------------|-----------|--------|--------|
| | % | Lower | Upper |
| Surrogates: | Recovery: | Limit: | Limit: |
| 4-Bromofluorobenzene | 90 | 70 | 130 |

| Compounds: | Concentration | | Compounds: | Concentration | |
|-----------------------------|---------------|--------|---------------------------|---------------|--------|
| | ug/m3 | ppbv | | ug/m3 | ppbv |
| Propene | <6.7 | <3.9 | 1,2-Dichloropropane | <1.3 | <0.28 |
| Dichlorodifluoromethane | <2.8 | <0.56 | 1,4-Dioxane | <2 | <0.56 |
| Chloromethane | <21 | <10 | 2,2,4-Trimethylpentane | <26 | <5.6 |
| F-114 | <3.9 | <0.56 | Methyl methacrylate | <23 | <5.6 |
| Vinyl chloride | <1.4 | <0.56 | Heptane | <23 | <5.6 |
| 1,3-Butadiene | <0.25 | <0.11 | Bromodichloromethane | <0.38 | <0.056 |
| Butane | <27 | <11 | Trichloroethene | 1.8 | 0.34 |
| Bromomethane | <13 | <3.4 | cis-1,3-Dichloropropene | <2.5 | <0.56 |
| Chloroethane | <15 | <5.6 | 4-Methyl-2-pentanone | <23 | <5.6 |
| Vinyl bromide | <2.4 | <0.56 | trans-1,3-Dichloropropene | <2.5 | <0.56 |
| Ethanol | <42 | <22 | Toluene | 130 | 35 |
| Acrolein | <0.64 | <0.28 | 1,1,2-Trichloroethane | <0.31 | <0.056 |
| Pentane | <17 | <5.6 | 2-Hexanone | <23 | <5.6 |
| Trichlorofluoromethane | <13 | <2.2 | Tetrachloroethene | <38 | <5.6 |
| Acetone | <27 | <11 | Dibromochloromethane | <0.48 | <0.056 |
| 2-Propanol | <48 | <20 | 1,2-Dibromoethane (EDB) | <0.43 | <0.056 |
| 1,1-Dichloroethene | <2.2 | <0.56 | Chlorobenzene | <2.6 | <0.56 |
| trans-1,2-Dichloroethene | <2.2 | <0.56 | Ethylbenzene | 14 | 3.3 |
| Methylene chloride | <190 | <56 | 1,1,2,2-Tetrachloroethane | <0.77 | <0.11 |
| t-Butyl alcohol (TBA) | <68 | <22 | Nonane | <29 | <5.6 |
| 3-Chloropropene | <8.8 | <2.8 | Isopropylbenzene | <14 | <2.8 |
| CFC-113 | <4.3 | <0.56 | 2-Chlorotoluene | <29 | <5.6 |
| Carbon disulfide | <35 | <11 | Propylbenzene | <14 | <2.8 |
| Methyl t-butyl ether (MTBE) | <10 | <2.8 | 4-Ethyltoluene | <14 | <2.8 |
| Vinyl acetate | <39 | <11 | m,p-Xylene | 58 | 13 |
| 1,1-Dichloroethane | <2.3 | <0.56 | o-Xylene | 18 | 4.1 |
| cis-1,2-Dichloroethene | <2.2 | <0.56 | Styrene | <4.8 | <1.1 |
| Hexane | <20 | <5.6 | Bromoform | <12 | <1.1 |
| Chloroform | 1.9 | 0.38 | Benzyl chloride | <0.29 | <0.056 |
| Ethyl acetate | <40 | <11 | 1,3,5-Trimethylbenzene | <14 | <2.8 |
| Tetrahydrofuran | <3.3 | <1.1 | 1,2,4-Trimethylbenzene | <14 | <2.8 |
| 2-Butanone (MEK) | <17 | <5.6 | 1,3-Dichlorobenzene | <3.4 | <0.56 |
| 1,2-Dichloroethane (EDC) | <0.23 | <0.056 | 1,4-Dichlorobenzene | <1.3 | <0.21 |
| 1,1,1-Trichloroethane | <3.1 | <0.56 | 1,2-Dichlorobenzene | <3.4 | <0.56 |
| Carbon tetrachloride | <1.8 | <0.28 | 1,2,4-Trichlorobenzene | <4.2 | <0.56 |
| Benzene | 4.7 | 1.5 | Naphthalene | <1.5 | <0.28 |
| Cyclohexane | <39 | <11 | Hexachlorobutadiene | <1.2 | <0.11 |
| Gasoline Range Organics | <1,800 | <450 | | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

| | | | |
|-------------------|----------------|-------------|------------------------|
| Client Sample ID: | Method Blank | Client: | Point Source Solutions |
| Date Received: | Not Applicable | Project: | 3912 N Vancouver Ave |
| Date Collected: | Not Applicable | Lab ID: | 01-2815 MB |
| Date Analyzed: | 12/09/21 | Data File: | 120914.D |
| Matrix: | Air | Instrument: | GCMS7 |
| Units: | ug/m3 | Operator: | bat |

| | | | |
|----------------------|-----------|--------|--------|
| | % | Lower | Upper |
| Surrogates: | Recovery: | Limit: | Limit: |
| 4-Bromofluorobenzene | 86 | 70 | 130 |

| Compounds: | Concentration | | Compounds: | Concentration | |
|-----------------------------|---------------|-------|---------------------------|---------------|--------|
| | ug/m3 | ppbv | | ug/m3 | ppbv |
| Propene | <1.2 | <0.7 | 1,2-Dichloropropane | <0.23 | <0.05 |
| Dichlorodifluoromethane | <0.49 | <0.1 | 1,4-Dioxane | <0.36 | <0.1 |
| Chloromethane | <3.7 | <1.8 | 2,2,4-Trimethylpentane | <4.7 | <1 |
| F-114 | <0.7 | <0.1 | Methyl methacrylate | <4.1 | <1 |
| Vinyl chloride | <0.26 | <0.1 | Heptane | <4.1 | <1 |
| 1,3-Butadiene | <0.044 | <0.02 | Bromodichloromethane | <0.067 | <0.01 |
| Butane | <4.8 | <2 | Trichloroethene | <0.11 | <0.02 |
| Bromomethane | <2.3 | <0.6 | cis-1,3-Dichloropropene | <0.45 | <0.1 |
| Chloroethane | <2.6 | <1 | 4-Methyl-2-pentanone | <4.1 | <1 |
| Vinyl bromide | <0.44 | <0.1 | trans-1,3-Dichloropropene | <0.45 | <0.1 |
| Ethanol | <7.5 | <4 | Toluene | <19 | <5 |
| Acrolein | <0.11 | <0.05 | 1,1,2-Trichloroethane | <0.055 | <0.01 |
| Pentane | <3 | <1 | 2-Hexanone | <4.1 | <1 |
| Trichlorofluoromethane | <2.2 | <0.4 | Tetrachloroethene | <6.8 | <1 |
| Acetone | <4.8 | <2 | Dibromochloromethane | <0.085 | <0.01 |
| 2-Propanol | <8.6 | <3.5 | 1,2-Dibromoethane (EDB) | <0.077 | <0.01 |
| 1,1-Dichloroethene | <0.4 | <0.1 | Chlorobenzene | <0.46 | <0.1 |
| trans-1,2-Dichloroethene | <0.4 | <0.1 | Ethylbenzene | <0.43 | <0.1 |
| Methylene chloride | <35 | <10 | 1,1,2,2-Tetrachloroethane | <0.14 | <0.02 |
| t-Butyl alcohol (TBA) | <12 | <4 | Nonane | <5.2 | <1 |
| 3-Chloropropene | <1.6 | <0.5 | Isopropylbenzene | <2.5 | <0.5 |
| CFC-113 | <0.77 | <0.1 | 2-Chlorotoluene | <5.2 | <1 |
| Carbon disulfide | <6.2 | <2 | Propylbenzene | <2.5 | <0.5 |
| Methyl t-butyl ether (MTBE) | <1.8 | <0.5 | 4-Ethyltoluene | <2.5 | <0.5 |
| Vinyl acetate | <7 | <2 | m,p-Xylene | <0.87 | <0.2 |
| 1,1-Dichloroethane | <0.4 | <0.1 | o-Xylene | <0.43 | <0.1 |
| cis-1,2-Dichloroethene | <0.4 | <0.1 | Styrene | <0.85 | <0.2 |
| Hexane | <3.5 | <1 | Bromoform | <2.1 | <0.2 |
| Chloroform | <0.049 | <0.01 | Benzyl chloride | <0.052 | <0.01 |
| Ethyl acetate | <7.2 | <2 | 1,3,5-Trimethylbenzene | <2.5 | <0.5 |
| Tetrahydrofuran | <0.59 | <0.2 | 1,2,4-Trimethylbenzene | <2.5 | <0.5 |
| 2-Butanone (MEK) | <2.9 | <1 | 1,3-Dichlorobenzene | <0.6 | <0.1 |
| 1,2-Dichloroethane (EDC) | <0.04 | <0.01 | 1,4-Dichlorobenzene | <0.23 | <0.038 |
| 1,1,1-Trichloroethane | <0.55 | <0.1 | 1,2-Dichlorobenzene | <0.6 | <0.1 |
| Carbon tetrachloride | <0.31 | <0.05 | 1,2,4-Trichlorobenzene | <0.74 | <0.1 |
| Benzene | <0.32 | <0.1 | Naphthalene | <0.26 | <0.05 |
| Cyclohexane | <6.9 | <2 | Hexachlorobutadiene | <0.21 | <0.02 |
| Gasoline Range Organics | <330 | <80 | | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/15/21

Date Received: 12/06/21

Project: 3912 N Vancouver Ave, F&BI 112088

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: 112088-01 1/5.5 (Duplicate)

| Analyte | Reporting Units | Sample Result | Duplicate Result | RPD (Limit 30) |
|-----------------------------|-----------------|---------------|------------------|----------------|
| Propene | ug/m3 | <6.6 | <6.6 | nm |
| Dichlorodifluoromethane | ug/m3 | 2.8 | <2.7 | nm |
| Chloromethane | ug/m3 | <20 | <20 | nm |
| F-114 | ug/m3 | <3.8 | <3.8 | nm |
| Vinyl chloride | ug/m3 | <1.4 | <1.4 | nm |
| 1,3-Butadiene | ug/m3 | <0.24 | <0.24 | nm |
| Butane | ug/m3 | 27 | <26 | nm |
| Bromomethane | ug/m3 | <13 | <13 | nm |
| Chloroethane | ug/m3 | <15 | <15 | nm |
| Vinyl bromide | ug/m3 | <2.4 | <2.4 | nm |
| Ethanol | ug/m3 | <41 | <41 | nm |
| Acrolein | ug/m3 | <0.63 | <0.63 | nm |
| Pentane | ug/m3 | <16 | <16 | nm |
| Trichlorofluoromethane | ug/m3 | <12 | <12 | nm |
| Acetone | ug/m3 | 170 | 170 | 0 |
| 2-Propanol | ug/m3 | <47 | <47 | nm |
| 1,1-Dichloroethene | ug/m3 | <2.2 | <2.2 | nm |
| trans-1,2-Dichloroethene | ug/m3 | <2.2 | <2.2 | nm |
| Methylene chloride | ug/m3 | <190 | <190 | nm |
| t-Butyl alcohol (TBA) | ug/m3 | <67 | <67 | nm |
| 3-Chloropropene | ug/m3 | <8.6 | <8.6 | nm |
| CFC-113 | ug/m3 | <4.2 | <4.2 | nm |
| Carbon disulfide | ug/m3 | <34 | <34 | nm |
| Methyl t-butyl ether (MTBE) | ug/m3 | <9.9 | <9.9 | nm |
| Vinyl acetate | ug/m3 | <39 | <39 | nm |
| 1,1-Dichloroethane | ug/m3 | <2.2 | <2.2 | nm |
| cis-1,2-Dichloroethene | ug/m3 | <2.2 | <2.2 | nm |
| Hexane | ug/m3 | <19 | <19 | nm |
| Chloroform | ug/m3 | 3.3 | 3.1 | 6 |
| Ethyl acetate | ug/m3 | <40 | <40 | nm |
| Tetrahydrofuran | ug/m3 | <3.2 | <3.2 | nm |
| 2-Butanone (MEK) | ug/m3 | 590 | 530 | 11 |
| 1,2-Dichloroethane (EDC) | ug/m3 | <0.22 | <0.22 | nm |
| 1,1,1-Trichloroethane | ug/m3 | <3 | <3 | nm |
| Carbon tetrachloride | ug/m3 | <1.7 | <1.7 | nm |
| Benzene | ug/m3 | 60 | 58 | 3 |
| Cyclohexane | ug/m3 | <38 | <38 | nm |
| 1,2-Dichloropropane | ug/m3 | <1.3 | <1.3 | nm |
| 1,4-Dioxane | ug/m3 | <2 | <2 | nm |
| 2,2,4-Trimethylpentane | ug/m3 | 32 | 32 | 0 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/15/21

Date Received: 12/06/21

Project: 3912 N Vancouver Ave, F&BI 112088

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: 112088-01 1/5.5 (Duplicate, continued)

| Analyte | Reporting Units | Sample Result | Duplicate Result | RPD (Limit 30) |
|---------------------------|-----------------|---------------|------------------|----------------|
| Methyl methacrylate | ug/m3 | <23 | <23 | nm |
| Heptane | ug/m3 | <23 | <23 | nm |
| Bromodichloromethane | ug/m3 | <0.37 | <0.37 | nm |
| Trichloroethene | ug/m3 | 1.5 | 1.4 | 7 |
| cis-1,3-Dichloropropene | ug/m3 | <2.5 | <2.5 | nm |
| 4-Methyl-2-pentanone | ug/m3 | <23 | <23 | nm |
| trans-1,3-Dichloropropene | ug/m3 | <2.5 | <2.5 | nm |
| Toluene | ug/m3 | 230 | 230 | 0 |
| 1,1,2-Trichloroethane | ug/m3 | <0.3 | <0.3 | nm |
| 2-Hexanone | ug/m3 | <23 | <23 | nm |
| Tetrachloroethene | ug/m3 | <37 | <37 | nm |
| Dibromochloromethane | ug/m3 | <0.47 | <0.47 | nm |
| 1,2-Dibromoethane (EDB) | ug/m3 | <0.42 | <0.42 | nm |
| Chlorobenzene | ug/m3 | <2.5 | <2.5 | nm |
| Ethylbenzene | ug/m3 | 20 | 19 | 5 |
| 1,1,2,2-Tetrachloroethane | ug/m3 | <0.76 | <0.76 | nm |
| Nonane | ug/m3 | <29 | <29 | nm |
| Isopropylbenzene | ug/m3 | 29 | 31 | 7 |
| 2-Chlorotoluene | ug/m3 | <28 | <28 | nm |
| Propylbenzene | ug/m3 | <14 | <14 | nm |
| 4-Ethyltoluene | ug/m3 | <14 | <14 | nm |
| m,p-Xylene | ug/m3 | 80 | 78 | 3 |
| o-Xylene | ug/m3 | 24 | 24 | 0 |
| Styrene | ug/m3 | <4.7 | <4.7 | nm |
| Bromoform | ug/m3 | <11 | <11 | nm |
| Benzyl chloride | ug/m3 | <0.28 | <0.28 | nm |
| 1,3,5-Trimethylbenzene | ug/m3 | <14 | <14 | nm |
| 1,2,4-Trimethylbenzene | ug/m3 | <14 | <14 | nm |
| 1,3-Dichlorobenzene | ug/m3 | <3.3 | <3.3 | nm |
| 1,4-Dichlorobenzene | ug/m3 | <1.3 | <1.3 | nm |
| 1,2-Dichlorobenzene | ug/m3 | <3.3 | <3.3 | nm |
| 1,2,4-Trichlorobenzene | ug/m3 | <4.1 | <4.1 | nm |
| Naphthalene | ug/m3 | <1.4 | <1.4 | nm |
| Hexachlorobutadiene | ug/m3 | <1.2 | <1.2 | nm |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/15/21

Date Received: 12/06/21

Project: 3912 N Vancouver Ave, F&BI 112088

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent | Acceptance Criteria |
|-----------------------------|--------------------|----------------|-----------------|------------------------|
| | | | Recovery LCS | |
| Propene | ug/m3 | 23 | 76 | 70-130 |
| Dichlorodifluoromethane | ug/m3 | 67 | 97 | 70-130 |
| Chloromethane | ug/m3 | 28 | 92 | 70-130 |
| F-114 | ug/m3 | 94 | 101 | 70-130 |
| Vinyl chloride | ug/m3 | 35 | 87 | 70-130 |
| 1,3-Butadiene | ug/m3 | 30 | 84 | 70-130 |
| Butane | ug/m3 | 32 | 88 | 70-130 |
| Bromomethane | ug/m3 | 52 | 100 | 70-130 |
| Chloroethane | ug/m3 | 36 | 93 | 70-130 |
| Vinyl bromide | ug/m3 | 59 | 93 | 70-130 |
| Ethanol | ug/m3 | 25 | 87 | 70-130 |
| Acrolein | ug/m3 | 31 | 80 | 70-130 |
| Pentane | ug/m3 | 40 | 78 | 70-130 |
| Trichlorofluoromethane | ug/m3 | 76 | 101 | 70-130 |
| Acetone | ug/m3 | 32 | 93 | 70-130 |
| 2-Propanol | ug/m3 | 33 | 79 | 70-130 |
| 1,1-Dichloroethene | ug/m3 | 54 | 95 | 70-130 |
| trans-1,2-Dichloroethene | ug/m3 | 54 | 93 | 70-130 |
| Methylene chloride | ug/m3 | 94 | 146 vo | 70-130 |
| t-Butyl alcohol (TBA) | ug/m3 | 41 | 88 | 70-130 |
| 3-Chloropropene | ug/m3 | 42 | 78 | 70-130 |
| CFC-113 | ug/m3 | 100 | 97 | 70-130 |
| Carbon disulfide | ug/m3 | 42 | 95 | 70-130 |
| Methyl t-butyl ether (MTBE) | ug/m3 | 49 | 85 | 70-130 |
| Vinyl acetate | ug/m3 | 48 | 72 | 70-130 |
| 1,1-Dichloroethane | ug/m3 | 55 | 91 | 70-130 |
| cis-1,2-Dichloroethene | ug/m3 | 54 | 94 | 70-130 |
| Hexane | ug/m3 | 48 | 81 | 70-130 |
| Chloroform | ug/m3 | 66 | 93 | 70-130 |
| Ethyl acetate | ug/m3 | 49 | 84 | 70-130 |
| Tetrahydrofuran | ug/m3 | 40 | 82 | 70-130 |
| 2-Butanone (MEK) | ug/m3 | 40 | 84 | 70-130 |
| 1,2-Dichloroethane (EDC) | ug/m3 | 55 | 89 | 70-130 |
| 1,1,1-Trichloroethane | ug/m3 | 74 | 97 | 70-130 |
| Carbon tetrachloride | ug/m3 | 85 | 99 | 70-130 |
| Benzene | ug/m3 | 43 | 90 | 70-130 |
| Cyclohexane | ug/m3 | 46 | 77 | 70-130 |
| 1,2-Dichloropropane | ug/m3 | 62 | 91 | 70-130 |
| 1,4-Dioxane | ug/m3 | 49 | 94 | 70-130 |
| 2,2,4-Trimethylpentane | ug/m3 | 63 | 87 | 70-130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/15/21

Date Received: 12/06/21

Project: 3912 N Vancouver Ave, F&BI 112088

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: Laboratory Control Sample (Continued)

| Analyte | Reporting Units | Spike Level | Percent | Acceptance Criteria |
|---------------------------|--------------------|----------------|-----------------|------------------------|
| | | | Recovery LCS | |
| Methyl methacrylate | ug/m3 | 55 | 88 | 70-130 |
| Heptane | ug/m3 | 55 | 82 | 70-130 |
| Bromodichloromethane | ug/m3 | 90 | 98 | 70-130 |
| Trichloroethene | ug/m3 | 73 | 95 | 70-130 |
| cis-1,3-Dichloropropene | ug/m3 | 61 | 100 | 70-130 |
| 4-Methyl-2-pentanone | ug/m3 | 55 | 105 | 70-130 |
| trans-1,3-Dichloropropene | ug/m3 | 61 | 100 | 70-130 |
| Toluene | ug/m3 | 51 | 97 | 70-130 |
| 1,1,2-Trichloroethane | ug/m3 | 74 | 99 | 70-130 |
| 2-Hexanone | ug/m3 | 55 | 82 | 70-130 |
| Tetrachloroethene | ug/m3 | 92 | 109 | 70-130 |
| Dibromochloromethane | ug/m3 | 120 | 112 | 70-130 |
| 1,2-Dibromoethane (EDB) | ug/m3 | 100 | 98 | 70-130 |
| Chlorobenzene | ug/m3 | 62 | 105 | 70-130 |
| Ethylbenzene | ug/m3 | 59 | 92 | 70-130 |
| 1,1,2,2-Tetrachloroethane | ug/m3 | 93 | 97 | 70-130 |
| Nonane | ug/m3 | 71 | 77 | 70-130 |
| Isopropylbenzene | ug/m3 | 66 | 97 | 70-130 |
| 2-Chlorotoluene | ug/m3 | 70 | 94 | 70-130 |
| Propylbenzene | ug/m3 | 66 | 93 | 70-130 |
| 4-Ethyltoluene | ug/m3 | 66 | 87 | 70-130 |
| m,p-Xylene | ug/m3 | 120 | 96 | 70-130 |
| o-Xylene | ug/m3 | 59 | 100 | 70-130 |
| Styrene | ug/m3 | 58 | 98 | 70-130 |
| Bromoform | ug/m3 | 140 | 112 | 70-130 |
| Benzyl chloride | ug/m3 | 70 | 104 | 70-130 |
| 1,3,5-Trimethylbenzene | ug/m3 | 66 | 91 | 70-130 |
| 1,2,4-Trimethylbenzene | ug/m3 | 66 | 86 | 70-130 |
| 1,3-Dichlorobenzene | ug/m3 | 81 | 109 | 70-130 |
| 1,4-Dichlorobenzene | ug/m3 | 81 | 97 | 70-130 |
| 1,2-Dichlorobenzene | ug/m3 | 81 | 103 | 70-130 |
| 1,2,4-Trichlorobenzene | ug/m3 | 100 | 78 | 70-130 |
| Naphthalene | ug/m3 | 71 | 82 | 70-130 |
| Hexachlorobutadiene | ug/m3 | 140 | 100 | 70-130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

SAMPLE CHAIN OF CUSTODY

12-06-21

Page # 1 of 1

TURNAROUND TIME

Standard
 RUSH
 Rush charges authorized by:

SAMPLE DISPOSAL
 Default: Clean after 3 days
 Archive (Fee may apply)

Report No. 112088
 Gil Cobb
 Company Point Source Solutions
 Address 10445 SW Canyon Rd Ste 200
 City, State, ZIP Beaverton, OR 97005
 Phone (971) 470-3386 Email _____

SAMPLERS (signature) John Remus
 PROJECT NAME & ADDRESS
3912 N Vancouver Ave
 PO #
 NOTES:
 INVOICE TO

SAMPLE INFORMATION

| Sample Name | Lab ID | Canister ID | Flow Cont. ID | Reporting Level: IA=Indoor Air SG=Soil Gas (Circle One) | Date Sampled | Initial Vac. (Hg) | Field Initial Time | Final Vac. (Hg) | Field Final Time | ANALYSIS REQUESTED | | | Notes | |
|-------------|--------|-------------|---------------|---|--------------|-------------------|--------------------|-----------------|------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------|--|
| PS1 | 01 | 3412 | 35 | IA / <u>SG</u> | 12-3-21 | 29 | 10:31 | 5 | 10:36 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | X | |
| SS1 | 02 | 3386 | 117 | IA / <u>SG</u> | 12-3-21 | 30 | 10:37 | 5 | 10:42 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | X | |
| SS2 | 03 | 3378 | 108 | IA / <u>SG</u> | 12-3-21 | 30 | 10:45 | 5 | 10:49 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | X | |
| | | | | IA / SG | | | | | | | | | | |
| | | | | IA / SG | | | | | | | | | | |
| | | | | IA / SG | | | | | | | | | | |
| | | | | IA / SG | | | | | | | | | | |
| | | | | IA / SG | | | | | | | | | | |
| | | | | IA / SG | | | | | | | | | | |

Samples received at 12 °C

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282
 Fax (206) 283-5044
 FORMS\COC\COCTO-15.DOC

| SIGNATURE | | PRINT NAME | | COMPANY | | DATE | | TIME | |
|------------------------------------|--|------------|--|--------------|--|---------|--|-------|--|
| Relinquished by: <u>John Remus</u> | | John Remus | | Point Source | | 12-3-21 | | 11:09 | |
| Received by: <u>John Remus</u> | | John Remus | | Point Source | | 12-3-21 | | 11:09 | |
| Relinquished by: <u>John Remus</u> | | John Remus | | Point Source | | 12-3-21 | | 11:09 | |
| Received by: <u>John Remus</u> | | John Remus | | Point Source | | 12-3-21 | | 11:09 | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

July 1, 2022

Gil Cobb, Project Manager
Point Source Solutions
5317 NE St Johns Rd, Suite D
Vancouver, WA 98661

Dear Mr Cobb:

Included are the results from the testing of material submitted on June 22, 2022 from the The Brio, F&BI 206372 project. There are 9 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Johnny Ramus, Jeff Jackman, Kyle Fisher
PSS0701R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 22, 2022 by Friedman & Bruya, Inc. from the Point Source Solutions The Brio, F&BI 206372 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>Point Source Solutions</u> |
|----------------------|-------------------------------|
| 206372 -01 | SS2 |
| 206372 -02 | SS1 |
| 206372 -03 | PS1 |

The TO-15 gasoline range concentrations were quantified using a single point calibration at 80 ppbv.

Methylene chloride was detected in the analysis of sample SS1. The data were flagged as due to laboratory contamination.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

| | | | |
|-------------------|----------|-------------|------------------------|
| Client Sample ID: | SS2 | Client: | Point Source Solutions |
| Date Received: | 06/22/22 | Project: | The Brio, F&BI 206372 |
| Date Collected: | 06/21/22 | Lab ID: | 206372-01 1/6.6 |
| Date Analyzed: | 06/28/22 | Data File: | 062725.D |
| Matrix: | Air | Instrument: | GCMS7 |
| Units: | ug/m3 | Operator: | bat |

| | | | |
|----------------------|-----------|--------|--------|
| | % | Lower | Upper |
| Surrogates: | Recovery: | Limit: | Limit: |
| 4-Bromofluorobenzene | 84 | 70 | 130 |

| Compounds: | Concentration | | Compounds: | Concentration | |
|-----------------------------|---------------|--------|---------------------------|---------------|--------|
| | ug/m3 | ppbv | | ug/m3 | ppbv |
| Propene | <8 | <4.6 | 1,2-Dichloropropane | <1.5 | <0.33 |
| Dichlorodifluoromethane | <6.5 | <1.3 | 1,4-Dioxane | <2.4 | <0.66 |
| Chloromethane | <25 | <12 | 2,2,4-Trimethylpentane | <31 | <6.6 |
| F-114 | <14 | <2 | Methyl methacrylate | <27 | <6.6 |
| Vinyl chloride | <1.7 | <0.66 | Heptane | <27 | <6.6 |
| 1,3-Butadiene | <0.29 | <0.13 | Bromodichloromethane | <0.44 | <0.066 |
| Butane | <31 | <13 | Trichloroethene | 7.2 | 1.3 |
| Bromomethane | <26 | <6.6 | cis-1,3-Dichloropropene | <6 | <1.3 |
| Chloroethane | <17 | <6.6 | 4-Methyl-2-pentanone | <27 | <6.6 |
| Vinyl bromide | <2.9 | <0.66 | trans-1,3-Dichloropropene | <3 | <0.66 |
| Ethanol | <50 | <26 | Toluene | <120 | <33 |
| Acrolein | <0.76 | <0.33 | 1,1,2-Trichloroethane | <0.36 | <0.066 |
| Pentane | <39 | <13 | 2-Hexanone | <27 | <6.6 |
| Trichlorofluoromethane | <15 | <2.6 | Tetrachloroethene | 100 | 15 |
| Acetone | <31 | <13 | Dibromochloromethane | <0.56 | <0.066 |
| 2-Propanol | <57 | <23 | 1,2-Dibromoethane (EDB) | <0.51 | <0.066 |
| 1,1-Dichloroethene | <2.6 | <0.66 | Chlorobenzene | <3 | <0.66 |
| trans-1,2-Dichloroethene | <2.6 | <0.66 | Ethylbenzene | <2.9 | <0.66 |
| Methylene chloride | <230 | <66 | 1,1,2,2-Tetrachloroethane | <0.91 | <0.13 |
| t-Butyl alcohol (TBA) | <80 | <26 | Nonane | <35 | <6.6 |
| 3-Chloropropene | <21 | <6.6 | Isopropylbenzene | <65 | <13 |
| CFC-113 | <5.1 | <0.66 | 2-Chlorotoluene | <34 | <6.6 |
| Carbon disulfide | <41 | <13 | Propylbenzene | <32 | <6.6 |
| Methyl t-butyl ether (MTBE) | <48 | <13 | 4-Ethyltoluene | <32 | <6.6 |
| Vinyl acetate | <46 | <13 | m,p-Xylene | <5.7 | <1.3 |
| 1,1-Dichloroethane | <2.7 | <0.66 | o-Xylene | <2.9 | <0.66 |
| cis-1,2-Dichloroethene | <2.6 | <0.66 | Styrene | <5.6 | <1.3 |
| Hexane | <23 | <6.6 | Bromoform | <14 | <1.3 |
| Chloroform | 2.4 | 0.49 | Benzyl chloride | <0.34 | <0.066 |
| Ethyl acetate | <48 | <13 | 1,3,5-Trimethylbenzene | <32 | <6.6 |
| Tetrahydrofuran | <3.9 | <1.3 | 1,2,4-Trimethylbenzene | <32 | <6.6 |
| 2-Butanone (MEK) | <39 | <13 | 1,3-Dichlorobenzene | <4 | <0.66 |
| 1,2-Dichloroethane (EDC) | <0.27 | <0.066 | 1,4-Dichlorobenzene | <1.5 | <0.25 |
| 1,1,1-Trichloroethane | <3.6 | <0.66 | 1,2-Dichlorobenzene | <4 | <0.66 |
| Carbon tetrachloride | <2.1 | <0.33 | 1,2,4-Trichlorobenzene | <4.9 | <0.66 |
| Benzene | <2.1 | <0.66 | Naphthalene | <1.7 | <0.33 |
| Cyclohexane | <45 | <13 | Hexachlorobutadiene | <1.4 | <0.13 |
| Gasoline Rage Organics | <2,200 | <530 | | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

| | | | |
|-------------------|----------|-------------|------------------------|
| Client Sample ID: | SS1 | Client: | Point Source Solutions |
| Date Received: | 06/22/22 | Project: | The Brio, F&BI 206372 |
| Date Collected: | 06/21/22 | Lab ID: | 206372-02 1/5.5 |
| Date Analyzed: | 06/28/22 | Data File: | 062726.D |
| Matrix: | Air | Instrument: | GCMS7 |
| Units: | ug/m3 | Operator: | bat |

| | | | |
|----------------------|-----------|--------|--------|
| | % | Lower | Upper |
| Surrogates: | Recovery: | Limit: | Limit: |
| 4-Bromofluorobenzene | 83 | 70 | 130 |

| Compounds: | Concentration | | Compounds: | Concentration | |
|-----------------------------|---------------|--------|---------------------------|---------------|--------|
| | ug/m3 | ppbv | | ug/m3 | ppbv |
| Propene | <6.6 | <3.8 | 1,2-Dichloropropane | <1.3 | <0.28 |
| Dichlorodifluoromethane | <5.4 | <1.1 | 1,4-Dioxane | <2 | <0.55 |
| Chloromethane | <20 | <9.9 | 2,2,4-Trimethylpentane | <26 | <5.5 |
| F-114 | <12 | <1.6 | Methyl methacrylate | <23 | <5.5 |
| Vinyl chloride | <1.4 | <0.55 | Heptane | <23 | <5.5 |
| 1,3-Butadiene | <0.24 | <0.11 | Bromodichloromethane | <0.37 | <0.055 |
| Butane | <26 | <11 | Trichloroethene | <0.59 | <0.11 |
| Bromomethane | <21 | <5.5 | cis-1,3-Dichloropropene | <5 | <1.1 |
| Chloroethane | <15 | <5.5 | 4-Methyl-2-pentanone | <23 | <5.5 |
| Vinyl bromide | <2.4 | <0.55 | trans-1,3-Dichloropropene | <2.5 | <0.55 |
| Ethanol | <41 | <22 | Toluene | <100 | <27 |
| Acrolein | <0.63 | <0.28 | 1,1,2-Trichloroethane | <0.3 | <0.055 |
| Pentane | <32 | <11 | 2-Hexanone | <23 | <5.5 |
| Trichlorofluoromethane | <12 | <2.2 | Tetrachloroethene | <37 | <5.5 |
| Acetone | <26 | <11 | Dibromochloromethane | <0.47 | <0.055 |
| 2-Propanol | <47 | <19 | 1,2-Dibromoethane (EDB) | <0.42 | <0.055 |
| 1,1-Dichloroethene | <2.2 | <0.55 | Chlorobenzene | <2.5 | <0.55 |
| trans-1,2-Dichloroethene | <2.2 | <0.55 | Ethylbenzene | <2.4 | <0.55 |
| Methylene chloride | 270 lc | 79 lc | 1,1,2,2-Tetrachloroethane | <0.76 | <0.11 |
| t-Butyl alcohol (TBA) | <67 | <22 | Nonane | <29 | <5.5 |
| 3-Chloropropene | <17 | <5.5 | Isopropylbenzene | <54 | <11 |
| CFC-113 | <4.2 | <0.55 | 2-Chlorotoluene | <28 | <5.5 |
| Carbon disulfide | <34 | <11 | Propylbenzene | <27 | <5.5 |
| Methyl t-butyl ether (MTBE) | <40 | <11 | 4-Ethyltoluene | <27 | <5.5 |
| Vinyl acetate | <39 | <11 | m,p-Xylene | 8.6 | 2.0 |
| 1,1-Dichloroethane | <2.2 | <0.55 | o-Xylene | 3.3 | 0.75 |
| cis-1,2-Dichloroethene | <2.2 | <0.55 | Styrene | <4.7 | <1.1 |
| Hexane | <19 | <5.5 | Bromoform | <11 | <1.1 |
| Chloroform | <0.27 | <0.055 | Benzyl chloride | <0.28 | <0.055 |
| Ethyl acetate | <40 | <11 | 1,3,5-Trimethylbenzene | <27 | <5.5 |
| Tetrahydrofuran | <3.2 | <1.1 | 1,2,4-Trimethylbenzene | <27 | <5.5 |
| 2-Butanone (MEK) | <32 | <11 | 1,3-Dichlorobenzene | <3.3 | <0.55 |
| 1,2-Dichloroethane (EDC) | <0.22 | <0.055 | 1,4-Dichlorobenzene | <1.3 | <0.21 |
| 1,1,1-Trichloroethane | <3 | <0.55 | 1,2-Dichlorobenzene | <3.3 | <0.55 |
| Carbon tetrachloride | <1.7 | <0.28 | 1,2,4-Trichlorobenzene | <4.1 | <0.55 |
| Benzene | <1.8 | <0.55 | Naphthalene | <1.4 | <0.28 |
| Cyclohexane | <38 | <11 | Hexachlorobutadiene | <1.2 | <0.11 |
| Gasoline Rage Organics | <1,800 | <440 | | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

| | | | |
|-------------------|----------------|-------------|------------------------|
| Client Sample ID: | Method Blank | Client: | Point Source Solutions |
| Date Received: | Not Applicable | Project: | The Brio, F&BI 206372 |
| Date Collected: | Not Applicable | Lab ID: | 02-1442 mb |
| Date Analyzed: | 06/27/22 | Data File: | 062714.D |
| Matrix: | Air | Instrument: | GCMS7 |
| Units: | ug/m3 | Operator: | bat |

| | | | |
|----------------------|-----------|--------|--------|
| | % | Lower | Upper |
| Surrogates: | Recovery: | Limit: | Limit: |
| 4-Bromofluorobenzene | 85 | 70 | 130 |

| Compounds: | Concentration | | Compounds: | Concentration | |
|-----------------------------|---------------|-------|---------------------------|---------------|--------|
| | ug/m3 | ppbv | | ug/m3 | ppbv |
| Propene | <1.2 | <0.7 | 1,2-Dichloropropane | <0.23 | <0.05 |
| Dichlorodifluoromethane | <0.99 | <0.2 | 1,4-Dioxane | <0.36 | <0.1 |
| Chloromethane | <3.7 | <1.8 | 2,2,4-Trimethylpentane | <4.7 | <1 |
| F-114 | <2.1 | <0.3 | Methyl methacrylate | <4.1 | <1 |
| Vinyl chloride | <0.26 | <0.1 | Heptane | <4.1 | <1 |
| 1,3-Butadiene | <0.044 | <0.02 | Bromodichloromethane | <0.067 | <0.01 |
| Butane | <4.8 | <2 | Trichloroethene | <0.11 | <0.02 |
| Bromomethane | <3.9 | <1 | cis-1,3-Dichloropropene | <0.91 | <0.2 |
| Chloroethane | <2.6 | <1 | 4-Methyl-2-pentanone | <4.1 | <1 |
| Vinyl bromide | <0.44 | <0.1 | trans-1,3-Dichloropropene | <0.45 | <0.1 |
| Ethanol | <7.5 | <4 | Toluene | <19 | <5 |
| Acrolein | <0.11 | <0.05 | 1,1,2-Trichloroethane | <0.055 | <0.01 |
| Pentane | <5.9 | <2 | 2-Hexanone | <4.1 | <1 |
| Trichlorofluoromethane | <2.2 | <0.4 | Tetrachloroethene | <6.8 | <1 |
| Acetone | <4.8 | <2 | Dibromochloromethane | <0.085 | <0.01 |
| 2-Propanol | <8.6 | <3.5 | 1,2-Dibromoethane (EDB) | <0.077 | <0.01 |
| 1,1-Dichloroethene | <0.4 | <0.1 | Chlorobenzene | <0.46 | <0.1 |
| trans-1,2-Dichloroethene | <0.4 | <0.1 | Ethylbenzene | <0.43 | <0.1 |
| Methylene chloride | <35 | <10 | 1,1,2,2-Tetrachloroethane | <0.14 | <0.02 |
| t-Butyl alcohol (TBA) | <12 | <4 | Nonane | <5.2 | <1 |
| 3-Chloropropene | <3.1 | <1 | Isopropylbenzene | <9.8 | <2 |
| CFC-113 | <0.77 | <0.1 | 2-Chlorotoluene | <5.2 | <1 |
| Carbon disulfide | <6.2 | <2 | Propylbenzene | <4.9 | <1 |
| Methyl t-butyl ether (MTBE) | <7.2 | <2 | 4-Ethyltoluene | <4.9 | <1 |
| Vinyl acetate | <7 | <2 | m,p-Xylene | <0.87 | <0.2 |
| 1,1-Dichloroethane | <0.4 | <0.1 | o-Xylene | <0.43 | <0.1 |
| cis-1,2-Dichloroethene | <0.4 | <0.1 | Styrene | <0.85 | <0.2 |
| Hexane | <3.5 | <1 | Bromoform | <2.1 | <0.2 |
| Chloroform | <0.049 | <0.01 | Benzyl chloride | <0.052 | <0.01 |
| Ethyl acetate | <7.2 | <2 | 1,3,5-Trimethylbenzene | <4.9 | <1 |
| Tetrahydrofuran | <0.59 | <0.2 | 1,2,4-Trimethylbenzene | <4.9 | <1 |
| 2-Butanone (MEK) | <5.9 | <2 | 1,3-Dichlorobenzene | <0.6 | <0.1 |
| 1,2-Dichloroethane (EDC) | <0.04 | <0.01 | 1,4-Dichlorobenzene | <0.23 | <0.038 |
| 1,1,1-Trichloroethane | <0.55 | <0.1 | 1,2-Dichlorobenzene | <0.6 | <0.1 |
| Carbon tetrachloride | <0.31 | <0.05 | 1,2,4-Trichlorobenzene | <0.74 | <0.1 |
| Benzene | <0.32 | <0.1 | Naphthalene | <0.26 | <0.05 |
| Cyclohexane | <6.9 | <2 | Hexachlorobutadiene | <0.21 | <0.02 |
| Gasoline Rage Organics | <330 | <80 | | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/01/22

Date Received: 06/22/22

Project: The Brio, F&BI 206372

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: 206431-01 1/5.1 (Duplicate)

| Analyte | Reporting Units | Sample Result | Duplicate Result | RPD (Limit 30) |
|-----------------------------|-----------------|---------------|------------------|----------------|
| Propene | ug/m3 | 42 | 43 | 2 |
| Dichlorodifluoromethane | ug/m3 | <5 | <5 | nm |
| Chloromethane | ug/m3 | <19 | <19 | nm |
| F-114 | ug/m3 | <11 | <11 | nm |
| Vinyl chloride | ug/m3 | <1.3 | <1.3 | nm |
| 1,3-Butadiene | ug/m3 | 3.7 | 3.7 | 0 |
| Butane | ug/m3 | <24 | <24 | nm |
| Bromomethane | ug/m3 | <20 | <20 | nm |
| Chloroethane | ug/m3 | <13 | <13 | nm |
| Vinyl bromide | ug/m3 | <2.2 | <2.2 | nm |
| Ethanol | ug/m3 | <38 | <38 | nm |
| Acrolein | ug/m3 | 1.8 | 1.8 | 0 |
| Pentane | ug/m3 | <30 | <30 | nm |
| Trichlorofluoromethane | ug/m3 | <11 | <11 | nm |
| Acetone | ug/m3 | 58 | 57 | 2 |
| 2-Propanol | ug/m3 | <44 | <44 | nm |
| 1,1-Dichloroethene | ug/m3 | <2 | <2 | nm |
| trans-1,2-Dichloroethene | ug/m3 | <2 | <2 | nm |
| Methylene chloride | ug/m3 | <180 | <180 | nm |
| t-Butyl alcohol (TBA) | ug/m3 | <62 | <62 | nm |
| 3-Chloropropene | ug/m3 | <16 | <16 | nm |
| CFC-113 | ug/m3 | <3.9 | <3.9 | nm |
| Carbon disulfide | ug/m3 | <32 | <32 | nm |
| Methyl t-butyl ether (MTBE) | ug/m3 | <37 | <37 | nm |
| Vinyl acetate | ug/m3 | <36 | <36 | nm |
| 1,1-Dichloroethane | ug/m3 | <2.1 | <2.1 | nm |
| cis-1,2-Dichloroethene | ug/m3 | <2 | <2 | nm |
| Hexane | ug/m3 | <18 | <18 | nm |
| Chloroform | ug/m3 | 0.37 | 0.37 | 0 |
| Ethyl acetate | ug/m3 | <37 | <37 | nm |
| Tetrahydrofuran | ug/m3 | <3 | <3 | nm |
| 2-Butanone (MEK) | ug/m3 | <30 | <30 | nm |
| 1,2-Dichloroethane (EDC) | ug/m3 | 0.56 | 0.56 | 0 |
| 1,1,1-Trichloroethane | ug/m3 | <2.8 | <2.8 | nm |
| Carbon tetrachloride | ug/m3 | <1.6 | <1.6 | nm |
| Benzene | ug/m3 | 2.3 | 2.3 | 0 |
| Cyclohexane | ug/m3 | <35 | <35 | nm |
| 1,2-Dichloropropane | ug/m3 | <1.2 | <1.2 | nm |
| 1,4-Dioxane | ug/m3 | <1.8 | <1.8 | nm |
| 2,2,4-Trimethylpentane | ug/m3 | <24 | <24 | nm |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/01/22

Date Received: 06/22/22

Project: The Brio, F&BI 206372

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: 206431-01 1/5.1 (Duplicate) (continued)

| Analyte | Reporting Units | Sample Result | Duplicate Result | RPD (Limit 30) |
|---------------------------|-----------------|---------------|------------------|----------------|
| Methyl methacrylate | ug/m3 | <21 | <21 | nm |
| Heptane | ug/m3 | <21 | <21 | nm |
| Bromodichloromethane | ug/m3 | <0.34 | <0.34 | nm |
| Trichloroethene | ug/m3 | <0.55 | <0.55 | nm |
| cis-1,3-Dichloropropene | ug/m3 | <4.6 | <4.6 | nm |
| 4-Methyl-2-pentanone | ug/m3 | <21 | <21 | nm |
| trans-1,3-Dichloropropene | ug/m3 | <2.3 | <2.3 | nm |
| Toluene | ug/m3 | <96 | <96 | nm |
| 1,1,2-Trichloroethane | ug/m3 | <0.28 | <0.28 | nm |
| 2-Hexanone | ug/m3 | <21 | <21 | nm |
| Tetrachloroethene | ug/m3 | <35 | <35 | nm |
| Dibromochloromethane | ug/m3 | <0.43 | <0.43 | nm |
| 1,2-Dibromoethane (EDB) | ug/m3 | <0.39 | <0.39 | nm |
| Chlorobenzene | ug/m3 | <2.3 | <2.3 | nm |
| Ethylbenzene | ug/m3 | <2.2 | <2.2 | nm |
| 1,1,2,2-Tetrachloroethane | ug/m3 | <0.7 | <0.7 | nm |
| Nonane | ug/m3 | <27 | <27 | nm |
| Isopropylbenzene | ug/m3 | <50 | <50 | nm |
| 2-Chlorotoluene | ug/m3 | <26 | <26 | nm |
| Propylbenzene | ug/m3 | <25 | <25 | nm |
| 4-Ethyltoluene | ug/m3 | <25 | <25 | nm |
| m,p-Xylene | ug/m3 | 6.8 | 6.6 | 3 |
| o-Xylene | ug/m3 | 3.4 | 3.4 | 0 |
| Styrene | ug/m3 | 4.6 | 4.6 | 0 |
| Bromoform | ug/m3 | <11 | <11 | nm |
| Benzyl chloride | ug/m3 | <0.26 | <0.26 | nm |
| 1,3,5-Trimethylbenzene | ug/m3 | <25 | <25 | nm |
| 1,2,4-Trimethylbenzene | ug/m3 | <25 | <25 | nm |
| 1,3-Dichlorobenzene | ug/m3 | <3.1 | <3.1 | nm |
| 1,4-Dichlorobenzene | ug/m3 | <1.2 | <1.2 | nm |
| 1,2-Dichlorobenzene | ug/m3 | <3.1 | <3.1 | nm |
| 1,2,4-Trichlorobenzene | ug/m3 | <3.8 | <3.8 | nm |
| Naphthalene | ug/m3 | <1.3 | <1.3 | nm |
| Hexachlorobutadiene | ug/m3 | <1.1 | <1.1 | nm |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/01/22

Date Received: 06/22/22

Project: The Brio, F&BI 206372

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent | Acceptance |
|-----------------------------|--------------------|----------------|-----------------|------------|
| | | | Recovery LCS | Criteria |
| Propene | ug/m3 | 23 | 117 | 70-130 |
| Dichlorodifluoromethane | ug/m3 | 67 | 98 | 70-130 |
| Chloromethane | ug/m3 | 28 | 95 | 70-130 |
| F-114 | ug/m3 | 94 | 102 | 70-130 |
| Vinyl chloride | ug/m3 | 35 | 102 | 70-130 |
| 1,3-Butadiene | ug/m3 | 30 | 98 | 70-130 |
| Butane | ug/m3 | 32 | 88 | 70-130 |
| Bromomethane | ug/m3 | 52 | 125 | 70-130 |
| Chloroethane | ug/m3 | 36 | 102 | 70-130 |
| Vinyl bromide | ug/m3 | 59 | 96 | 70-130 |
| Ethanol | ug/m3 | 25 | 121 | 70-130 |
| Acrolein | ug/m3 | 31 | 75 | 70-130 |
| Pentane | ug/m3 | 40 | 77 | 70-130 |
| Trichlorofluoromethane | ug/m3 | 76 | 109 | 70-130 |
| Acetone | ug/m3 | 32 | 112 | 70-130 |
| 2-Propanol | ug/m3 | 33 | 96 | 70-130 |
| 1,1-Dichloroethene | ug/m3 | 54 | 103 | 70-130 |
| trans-1,2-Dichloroethene | ug/m3 | 54 | 100 | 70-130 |
| Methylene chloride | ug/m3 | 94 | 106 | 70-130 |
| t-Butyl alcohol (TBA) | ug/m3 | 41 | 88 | 70-130 |
| 3-Chloropropene | ug/m3 | 42 | 80 | 70-130 |
| CFC-113 | ug/m3 | 100 | 107 | 70-130 |
| Carbon disulfide | ug/m3 | 42 | 100 | 70-130 |
| Methyl t-butyl ether (MTBE) | ug/m3 | 49 | 85 | 70-130 |
| Vinyl acetate | ug/m3 | 48 | 80 | 70-130 |
| 1,1-Dichloroethane | ug/m3 | 55 | 100 | 70-130 |
| cis-1,2-Dichloroethene | ug/m3 | 54 | 98 | 70-130 |
| Hexane | ug/m3 | 48 | 78 | 70-130 |
| Chloroform | ug/m3 | 66 | 104 | 70-130 |
| Ethyl acetate | ug/m3 | 49 | 93 | 70-130 |
| Tetrahydrofuran | ug/m3 | 40 | 83 | 70-130 |
| 2-Butanone (MEK) | ug/m3 | 40 | 102 | 70-130 |
| 1,2-Dichloroethane (EDC) | ug/m3 | 55 | 99 | 70-130 |
| 1,1,1-Trichloroethane | ug/m3 | 74 | 104 | 70-130 |
| Carbon tetrachloride | ug/m3 | 85 | 106 | 70-130 |
| Benzene | ug/m3 | 43 | 93 | 70-130 |
| Cyclohexane | ug/m3 | 46 | 82 | 70-130 |
| 1,2-Dichloropropane | ug/m3 | 62 | 105 | 70-130 |
| 1,4-Dioxane | ug/m3 | 49 | 107 | 70-130 |
| 2,2,4-Trimethylpentane | ug/m3 | 63 | 95 | 70-130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/01/22

Date Received: 06/22/22

Project: The Brio, F&BI 206372

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: Laboratory Control Sample (continued)

| Analyte | Reporting Units | Spike Level | Percent | Acceptance Criteria |
|---------------------------|--------------------|----------------|-----------------|------------------------|
| | | | Recovery LCS | |
| Methyl methacrylate | ug/m3 | 55 | 93 | 70-130 |
| Heptane | ug/m3 | 55 | 90 | 70-130 |
| Bromodichloromethane | ug/m3 | 90 | 115 | 70-130 |
| Trichloroethene | ug/m3 | 73 | 107 | 70-130 |
| cis-1,3-Dichloropropene | ug/m3 | 61 | 110 | 70-130 |
| 4-Methyl-2-pentanone | ug/m3 | 55 | 109 | 70-130 |
| trans-1,3-Dichloropropene | ug/m3 | 61 | 105 | 70-130 |
| Toluene | ug/m3 | 51 | 102 | 70-130 |
| 1,1,2-Trichloroethane | ug/m3 | 74 | 119 | 70-130 |
| 2-Hexanone | ug/m3 | 55 | 93 | 70-130 |
| Tetrachloroethene | ug/m3 | 92 | 126 | 70-130 |
| Dibromochloromethane | ug/m3 | 120 | 125 | 70-130 |
| 1,2-Dibromoethane (EDB) | ug/m3 | 100 | 116 | 70-130 |
| Chlorobenzene | ug/m3 | 62 | 113 | 70-130 |
| Ethylbenzene | ug/m3 | 59 | 90 | 70-130 |
| 1,1,2,2-Tetrachloroethane | ug/m3 | 93 | 111 | 70-130 |
| Nonane | ug/m3 | 71 | 75 | 70-130 |
| Isopropylbenzene | ug/m3 | 66 | 100 | 70-130 |
| 2-Chlorotoluene | ug/m3 | 70 | 108 | 70-130 |
| Propylbenzene | ug/m3 | 66 | 103 | 70-130 |
| 4-Ethyltoluene | ug/m3 | 66 | 95 | 70-130 |
| m,p-Xylene | ug/m3 | 120 | 97 | 70-130 |
| o-Xylene | ug/m3 | 59 | 100 | 70-130 |
| Styrene | ug/m3 | 58 | 98 | 70-130 |
| Bromoform | ug/m3 | 140 | 116 | 70-130 |
| Benzyl chloride | ug/m3 | 70 | 107 | 70-130 |
| 1,3,5-Trimethylbenzene | ug/m3 | 66 | 101 | 70-130 |
| 1,2,4-Trimethylbenzene | ug/m3 | 66 | 97 | 70-130 |
| 1,3-Dichlorobenzene | ug/m3 | 81 | 125 | 70-130 |
| 1,4-Dichlorobenzene | ug/m3 | 81 | 122 | 70-130 |
| 1,2-Dichlorobenzene | ug/m3 | 81 | 124 | 70-130 |
| 1,2,4-Trichlorobenzene | ug/m3 | 100 | 137 vo | 70-130 |
| Naphthalene | ug/m3 | 71 | 125 | 70-130 |
| Hexachlorobutadiene | ug/m3 | 140 | 126 | 70-130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

206372

SAMPLE CHAIN OF CUSTODY 06-22-22

Page # 1 of 1

Report To: Gil Cobb

Company: Point Source Solutions

Address: 5317 NE St John Rd, Ste D.

City, State, ZIP: Vancouver, WA 98661

Phone: Email:

SAMPLES (signature)

PROJECT NAME & ADDRESS: The Eco

PO #

NOTES:

INVOICE TO

TURNAROUND TIME

Standard

RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Default: Clean after 3 days

Archive (Fee may apply)

| Sample Name | Lab ID | Canister ID | Flow Cont. ID | Reporting Level: IA=Indoor Air SG=Soil Gas (Circle One) | Date Sampled | Initial Vac. ("Hg) | Field Initial Time | Final Vac. ("Hg) | Field Final Time | ANALYSIS REQUESTED | | | | Notes |
|-------------|--------|-------------|---------------|---|--------------|--------------------|--------------------|------------------|------------------|--------------------|------------|------------|-----|---------------------------------------|
| | | | | | | | | | | TO15 Full Scan | TO15 BTEXN | TO15 cVOCs | APH | |
| SS2 | 01 | 3432 | 101 | IA / SG | 6/21/22 | 30 | 9:29 | 5 | 9:34 | | | | | Full-List VOCs TPH - GRO 2-prop |
| SS1 | 02 | 3386 | 229 | IA / SG | " | 30 | 9:46 | 5 | 9:58 | | | | | |
| PS1 | 03 | 2434 | 108 | IA / SG | " | 21 | 10:39 | 5 | 10:43 | | | | | HOLD -05 of 6/22 |
| | | | | IA / SG | | | | | | | | | | |
| | | | | IA / SG | | | | | | | | | | |
| | | | | IA / SG | | | | | | | | | | |
| | | | | IA / SG | | | | | | | | | | |

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282
 Fax (206) 283-5044
 FORMS\COG\COCTO-13.DOC

| SIGNATURE | PRINT NAME | COMPANY | DATE | TIME |
|--------------------|-------------|---------------------|---------|-------|
| <i>[Signature]</i> | Kyle Fisher | PSS | 6/21/22 | 11:22 |
| <i>[Signature]</i> | MW Bruya | PSS | 6/22/22 | 10:10 |
| Received by: | | | | |
| Relinquished by: | | | | |
| Received by: | | Samples received at | | 21 °C |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
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July 11, 2022

Gil Cobb, Project Manager
Point Source Solutions
5317 NE St Johns Rd, Suite D
Vancouver, WA 98661

Dear Mr Cobb:

Included are the results from the testing of material submitted on June 29, 2022 from the BRIO, F&BI 206524 project. There are 8 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Johnny Ramus, Jeff Jackman, Kyle Fisher
PSS0711R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 29, 2022 by Friedman & Bruya, Inc. from the Point Source Solutions BRIO, F&BI 206524 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>Point Source Solutions</u> |
|----------------------|-------------------------------|
| 206524 -01 | PS1 |

The TO-15 gasoline range concentrations were quantified using a single point calibration at 80 ppbv.

The concentration of several analytes in sample PS1 exceeded the calibration range of the instrument. The data were flagged accordingly.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

| | | | |
|-------------------|----------|-------------|------------------------|
| Client Sample ID: | PS1 | Client: | Point Source Solutions |
| Date Received: | 06/29/22 | Project: | BRIO, F&BI 206524 |
| Date Collected: | 06/28/22 | Lab ID: | 206524-01 1/19 |
| Date Analyzed: | 07/02/22 | Data File: | 070124.D |
| Matrix: | Air | Instrument: | GCMS7 |
| Units: | ug/m3 | Operator: | bat |

| | | | |
|----------------------|-----------|--------|--------|
| | % | Lower | Upper |
| Surrogates: | Recovery: | Limit: | Limit: |
| 4-Bromofluorobenzene | 91 | 70 | 130 |

| Compounds: | Concentration | | Compounds: | Concentration | |
|-----------------------------|---------------|----------|---------------------------|---------------|-------|
| | ug/m3 | ppbv | | ug/m3 | ppbv |
| Propene | <23 | <13 | 1,2-Dichloropropane | <4.4 | <0.95 |
| Dichlorodifluoromethane | <19 | <3.8 | 1,4-Dioxane | <6.8 | <1.9 |
| Chloromethane | <71 | <34 | 2,2,4-Trimethylpentane | <89 | <19 |
| F-114 | <40 | <5.7 | Methyl methacrylate | <78 | <19 |
| Vinyl chloride | <4.9 | <1.9 | Heptane | <78 | <19 |
| 1,3-Butadiene | <0.84 | <0.38 | Bromodichloromethane | <1.3 | <0.19 |
| Butane | <90 | <38 | Trichloroethene | 2.2 | 0.42 |
| Bromomethane | <74 | <19 | cis-1,3-Dichloropropene | <17 | <3.8 |
| Chloroethane | <50 | <19 | 4-Methyl-2-pentanone | <78 | <19 |
| Vinyl bromide | <8.3 | <1.9 | trans-1,3-Dichloropropene | <8.6 | <1.9 |
| Ethanol | <140 | <76 | Toluene | <360 | <95 |
| Acrolein | <2.2 | <0.95 | 1,1,2-Trichloroethane | <1 | <0.19 |
| Pentane | <110 | <38 | 2-Hexanone | <78 | <19 |
| Trichlorofluoromethane | <43 | <7.6 | Tetrachloroethene | <130 | <19 |
| Acetone | 2,200 ve | 920 ve | Dibromochloromethane | <1.6 | <0.19 |
| 2-Propanol | <160 | <66 | 1,2-Dibromoethane (EDB) | <1.5 | <0.19 |
| 1,1-Dichloroethene | <7.5 | <1.9 | Chlorobenzene | <8.7 | <1.9 |
| trans-1,2-Dichloroethene | <7.5 | <1.9 | Ethylbenzene | <8.3 | <1.9 |
| Methylene chloride | <660 | <190 | 1,1,2,2-Tetrachloroethane | <2.6 | <0.38 |
| t-Butyl alcohol (TBA) | <230 | <76 | Nonane | <100 | <19 |
| 3-Chloropropene | <59 | <19 | Isopropylbenzene | <190 | <38 |
| CFC-113 | <15 | <1.9 | 2-Chlorotoluene | <98 | <19 |
| Carbon disulfide | <120 | <38 | Propylbenzene | <93 | <19 |
| Methyl t-butyl ether (MTBE) | <140 | <38 | 4-Ethyltoluene | <93 | <19 |
| Vinyl acetate | <130 | <38 | m,p-Xylene | 24 | 5.5 |
| 1,1-Dichloroethane | <7.7 | <1.9 | o-Xylene | 8.7 | 2.0 |
| cis-1,2-Dichloroethene | <7.5 | <1.9 | Styrene | <16 | <3.8 |
| Hexane | <67 | <19 | Bromoform | <39 | <3.8 |
| Chloroform | 4.4 | 0.89 | Benzyl chloride | <0.98 | <0.19 |
| Ethyl acetate | <140 | <38 | 1,3,5-Trimethylbenzene | <93 | <19 |
| Tetrahydrofuran | <11 | <3.8 | 1,2,4-Trimethylbenzene | <93 | <19 |
| 2-Butanone (MEK) | 8,400 ve | 2,800 ve | 1,3-Dichlorobenzene | <11 | <1.9 |
| 1,2-Dichloroethane (EDC) | <0.77 | <0.19 | 1,4-Dichlorobenzene | <4.3 | <0.72 |
| 1,1,1-Trichloroethane | <10 | <1.9 | 1,2-Dichlorobenzene | <11 | <1.9 |
| Carbon tetrachloride | <6 | <0.95 | 1,2,4-Trichlorobenzene | <14 | <1.9 |
| Benzene | 160 | 49 | Naphthalene | <5 | <0.95 |
| Cyclohexane | <130 | <38 | Hexachlorobutadiene | <4.1 | <0.38 |
| Gasoline Range Organics | <6,200 | <1,500 | | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

| | | | |
|-------------------|----------------|-------------|------------------------|
| Client Sample ID: | Method Blank | Client: | Point Source Solutions |
| Date Received: | Not Applicable | Project: | BRIO, F&BI 206524 |
| Date Collected: | Not Applicable | Lab ID: | 02-1506 MB |
| Date Analyzed: | 07/01/22 | Data File: | 070111.D |
| Matrix: | Air | Instrument: | GCMS7 |
| Units: | ug/m3 | Operator: | bat |

| | | | |
|----------------------|-----------|--------|--------|
| | % | Lower | Upper |
| Surrogates: | Recovery: | Limit: | Limit: |
| 4-Bromofluorobenzene | 84 | 70 | 130 |

| Compounds: | Concentration | | Compounds: | Concentration | |
|-----------------------------|---------------|-------|---------------------------|---------------|--------|
| | ug/m3 | ppbv | | ug/m3 | ppbv |
| Propene | <1.2 | <0.7 | 1,2-Dichloropropane | <0.23 | <0.05 |
| Dichlorodifluoromethane | <0.99 | <0.2 | 1,4-Dioxane | <0.36 | <0.1 |
| Chloromethane | <3.7 | <1.8 | 2,2,4-Trimethylpentane | <4.7 | <1 |
| F-114 | <2.1 | <0.3 | Methyl methacrylate | <4.1 | <1 |
| Vinyl chloride | <0.26 | <0.1 | Heptane | <4.1 | <1 |
| 1,3-Butadiene | <0.044 | <0.02 | Bromodichloromethane | <0.067 | <0.01 |
| Butane | <4.8 | <2 | Trichloroethene | <0.11 | <0.02 |
| Bromomethane | <3.9 | <1 | cis-1,3-Dichloropropene | <0.91 | <0.2 |
| Chloroethane | <2.6 | <1 | 4-Methyl-2-pentanone | <4.1 | <1 |
| Vinyl bromide | <0.44 | <0.1 | trans-1,3-Dichloropropene | <0.45 | <0.1 |
| Ethanol | <7.5 | <4 | Toluene | <19 | <5 |
| Acrolein | <0.11 | <0.05 | 1,1,2-Trichloroethane | <0.055 | <0.01 |
| Pentane | <5.9 | <2 | 2-Hexanone | <4.1 | <1 |
| Trichlorofluoromethane | <2.2 | <0.4 | Tetrachloroethene | <6.8 | <1 |
| Acetone | <4.8 | <2 | Dibromochloromethane | <0.085 | <0.01 |
| 2-Propanol | <8.6 | <3.5 | 1,2-Dibromoethane (EDB) | <0.077 | <0.01 |
| 1,1-Dichloroethene | <0.4 | <0.1 | Chlorobenzene | <0.46 | <0.1 |
| trans-1,2-Dichloroethene | <0.4 | <0.1 | Ethylbenzene | <0.43 | <0.1 |
| Methylene chloride | <35 | <10 | 1,1,2,2-Tetrachloroethane | <0.14 | <0.02 |
| t-Butyl alcohol (TBA) | <12 | <4 | Nonane | <5.2 | <1 |
| 3-Chloropropene | <3.1 | <1 | Isopropylbenzene | <9.8 | <2 |
| CFC-113 | <0.77 | <0.1 | 2-Chlorotoluene | <5.2 | <1 |
| Carbon disulfide | <6.2 | <2 | Propylbenzene | <4.9 | <1 |
| Methyl t-butyl ether (MTBE) | <7.2 | <2 | 4-Ethyltoluene | <4.9 | <1 |
| Vinyl acetate | <7 | <2 | m,p-Xylene | <0.87 | <0.2 |
| 1,1-Dichloroethane | <0.4 | <0.1 | o-Xylene | <0.43 | <0.1 |
| cis-1,2-Dichloroethene | <0.4 | <0.1 | Styrene | <0.85 | <0.2 |
| Hexane | <3.5 | <1 | Bromoform | <2.1 | <0.2 |
| Chloroform | <0.049 | <0.01 | Benzyl chloride | <0.052 | <0.01 |
| Ethyl acetate | <7.2 | <2 | 1,3,5-Trimethylbenzene | <4.9 | <1 |
| Tetrahydrofuran | <0.59 | <0.2 | 1,2,4-Trimethylbenzene | <4.9 | <1 |
| 2-Butanone (MEK) | <5.9 | <2 | 1,3-Dichlorobenzene | <0.6 | <0.1 |
| 1,2-Dichloroethane (EDC) | <0.04 | <0.01 | 1,4-Dichlorobenzene | <0.23 | <0.038 |
| 1,1,1-Trichloroethane | <0.55 | <0.1 | 1,2-Dichlorobenzene | <0.6 | <0.1 |
| Carbon tetrachloride | <0.31 | <0.05 | 1,2,4-Trichlorobenzene | <0.74 | <0.1 |
| Benzene | <0.32 | <0.1 | Naphthalene | <0.26 | <0.05 |
| Cyclohexane | <6.9 | <2 | Hexachlorobutadiene | <0.21 | <0.02 |
| Gasoline Range Organics | <330 | <80 | | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/11/22

Date Received: 06/29/22

Project: BRIO, F&BI 206524

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: 206542-01 1/5.4 (Duplicate)

| Analyte | Reporting Units | Sample Result | Duplicate Result | RPD (Limit 30) |
|-----------------------------|-----------------|---------------|------------------|----------------|
| Propene | ug/m3 | <6.5 | <6.5 | nm |
| Dichlorodifluoromethane | ug/m3 | <5.3 | <5.3 | nm |
| Chloromethane | ug/m3 | <20 | <20 | nm |
| F-114 | ug/m3 | <11 | <11 | nm |
| Vinyl chloride | ug/m3 | <1.4 | <1.4 | nm |
| 1,3-Butadiene | ug/m3 | <0.24 | <0.24 | nm |
| Butane | ug/m3 | 26 | <26 | nm |
| Bromomethane | ug/m3 | <21 | <21 | nm |
| Chloroethane | ug/m3 | <14 | <14 | nm |
| Vinyl bromide | ug/m3 | <2.4 | <2.4 | nm |
| Ethanol | ug/m3 | <41 | <41 | nm |
| Acrolein | ug/m3 | <0.62 | <0.62 | nm |
| Pentane | ug/m3 | <32 | <32 | nm |
| Trichlorofluoromethane | ug/m3 | <12 | <12 | nm |
| Acetone | ug/m3 | 140 | 150 | 7 |
| 2-Propanol | ug/m3 | <46 | <46 | nm |
| 1,1-Dichloroethene | ug/m3 | <2.1 | <2.1 | nm |
| trans-1,2-Dichloroethene | ug/m3 | <2.1 | <2.1 | nm |
| Methylene chloride | ug/m3 | <190 | <190 | nm |
| t-Butyl alcohol (TBA) | ug/m3 | <65 | <65 | nm |
| 3-Chloropropene | ug/m3 | <17 | <17 | nm |
| CFC-113 | ug/m3 | <4.1 | <4.1 | nm |
| Carbon disulfide | ug/m3 | <34 | <34 | nm |
| Methyl t-butyl ether (MTBE) | ug/m3 | <39 | <39 | nm |
| Vinyl acetate | ug/m3 | <38 | <38 | nm |
| 1,1-Dichloroethane | ug/m3 | <2.2 | <2.2 | nm |
| cis-1,2-Dichloroethene | ug/m3 | <2.1 | <2.1 | nm |
| Hexane | ug/m3 | <19 | <19 | nm |
| Chloroform | ug/m3 | 0.26 | 0.26 | 0 |
| Ethyl acetate | ug/m3 | <39 | <39 | nm |
| Tetrahydrofuran | ug/m3 | <3.2 | <3.2 | nm |
| 2-Butanone (MEK) | ug/m3 | <32 | <32 | nm |
| 1,2-Dichloroethane (EDC) | ug/m3 | <0.22 | <0.22 | nm |
| 1,1,1-Trichloroethane | ug/m3 | <2.9 | <2.9 | nm |
| Carbon tetrachloride | ug/m3 | <1.7 | <1.7 | nm |
| Benzene | ug/m3 | 3.1 | 3.1 | 0 |
| Cyclohexane | ug/m3 | <37 | <37 | nm |
| 1,2-Dichloropropane | ug/m3 | <1.2 | <1.2 | nm |
| 1,4-Dioxane | ug/m3 | <1.9 | <1.9 | nm |
| 2,2,4-Trimethylpentane | ug/m3 | <25 | <25 | nm |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/11/22

Date Received: 06/29/22

Project: BRIO, F&BI 206524

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: 206542-01 1/5.4 (Duplicate) (continued)

| Analyte | Reporting Units | Sample Result | Duplicate Result | RPD (Limit 30) |
|---------------------------|-----------------|---------------|------------------|----------------|
| Methyl methacrylate | ug/m3 | <22 | <22 | nm |
| Heptane | ug/m3 | 34 | 33 | 3 |
| Bromodichloromethane | ug/m3 | <0.36 | <0.36 | nm |
| Trichloroethene | ug/m3 | <0.58 | <0.58 | nm |
| cis-1,3-Dichloropropene | ug/m3 | <4.9 | <4.9 | nm |
| 4-Methyl-2-pentanone | ug/m3 | <22 | <22 | nm |
| trans-1,3-Dichloropropene | ug/m3 | <2.5 | <2.5 | nm |
| Toluene | ug/m3 | 100 | 110 | 10 |
| 1,1,2-Trichloroethane | ug/m3 | <0.29 | <0.29 | nm |
| 2-Hexanone | ug/m3 | <22 | <22 | nm |
| Tetrachloroethene | ug/m3 | <37 | <37 | nm |
| Dibromochloromethane | ug/m3 | <0.46 | <0.46 | nm |
| 1,2-Dibromoethane (EDB) | ug/m3 | <0.41 | <0.41 | nm |
| Chlorobenzene | ug/m3 | 22 | 22 | 0 |
| Ethylbenzene | ug/m3 | 4.1 | 4.1 | 0 |
| 1,1,2,2-Tetrachloroethane | ug/m3 | <0.74 | <0.74 | nm |
| Nonane | ug/m3 | <28 | <28 | nm |
| Isopropylbenzene | ug/m3 | <53 | <53 | nm |
| 2-Chlorotoluene | ug/m3 | <28 | <28 | nm |
| Propylbenzene | ug/m3 | <27 | <27 | nm |
| 4-Ethyltoluene | ug/m3 | <27 | <27 | nm |
| m,p-Xylene | ug/m3 | 7.3 | 7.4 | 1 |
| o-Xylene | ug/m3 | <2.3 | <2.3 | nm |
| Styrene | ug/m3 | <4.6 | <4.6 | nm |
| Bromoform | ug/m3 | <11 | <11 | nm |
| Benzyl chloride | ug/m3 | <0.28 | <0.28 | nm |
| 1,3,5-Trimethylbenzene | ug/m3 | <27 | <27 | nm |
| 1,2,4-Trimethylbenzene | ug/m3 | <27 | <27 | nm |
| 1,3-Dichlorobenzene | ug/m3 | <3.2 | <3.2 | nm |
| 1,4-Dichlorobenzene | ug/m3 | <1.2 | <1.2 | nm |
| 1,2-Dichlorobenzene | ug/m3 | <3.2 | <3.2 | nm |
| 1,2,4-Trichlorobenzene | ug/m3 | <4 | <4 | nm |
| Naphthalene | ug/m3 | <1.4 | <1.4 | nm |
| Hexachlorobutadiene | ug/m3 | <1.2 | <1.2 | nm |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/11/22

Date Received: 06/29/22

Project: BRIO, F&BI 206524

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent | Acceptance |
|-----------------------------|--------------------|----------------|-----------------|------------|
| | | | Recovery LCS | Criteria |
| Propene | ug/m3 | 23 | 83 | 70-130 |
| Dichlorodifluoromethane | ug/m3 | 67 | 105 | 70-130 |
| Chloromethane | ug/m3 | 28 | 101 | 70-130 |
| F-114 | ug/m3 | 94 | 109 | 70-130 |
| Vinyl chloride | ug/m3 | 35 | 103 | 70-130 |
| 1,3-Butadiene | ug/m3 | 30 | 96 | 70-130 |
| Butane | ug/m3 | 32 | 85 | 70-130 |
| Bromomethane | ug/m3 | 52 | 112 | 70-130 |
| Chloroethane | ug/m3 | 36 | 103 | 70-130 |
| Vinyl bromide | ug/m3 | 59 | 99 | 70-130 |
| Ethanol | ug/m3 | 25 | 81 | 70-130 |
| Acrolein | ug/m3 | 31 | 75 | 70-130 |
| Pentane | ug/m3 | 40 | 76 | 70-130 |
| Trichlorofluoromethane | ug/m3 | 76 | 107 | 70-130 |
| Acetone | ug/m3 | 32 | 100 | 70-130 |
| 2-Propanol | ug/m3 | 33 | 86 | 70-130 |
| 1,1-Dichloroethene | ug/m3 | 54 | 105 | 70-130 |
| trans-1,2-Dichloroethene | ug/m3 | 54 | 100 | 70-130 |
| Methylene chloride | ug/m3 | 94 | 110 | 70-130 |
| t-Butyl alcohol (TBA) | ug/m3 | 41 | 86 | 70-130 |
| 3-Chloropropene | ug/m3 | 42 | 81 | 70-130 |
| CFC-113 | ug/m3 | 100 | 111 | 70-130 |
| Carbon disulfide | ug/m3 | 42 | 98 | 70-130 |
| Methyl t-butyl ether (MTBE) | ug/m3 | 49 | 89 | 70-130 |
| Vinyl acetate | ug/m3 | 48 | 75 | 70-130 |
| 1,1-Dichloroethane | ug/m3 | 55 | 101 | 70-130 |
| cis-1,2-Dichloroethene | ug/m3 | 54 | 98 | 70-130 |
| Hexane | ug/m3 | 48 | 79 | 70-130 |
| Chloroform | ug/m3 | 66 | 104 | 70-130 |
| Ethyl acetate | ug/m3 | 49 | 96 | 70-130 |
| Tetrahydrofuran | ug/m3 | 40 | 82 | 70-130 |
| 2-Butanone (MEK) | ug/m3 | 40 | 97 | 70-130 |
| 1,2-Dichloroethane (EDC) | ug/m3 | 55 | 101 | 70-130 |
| 1,1,1-Trichloroethane | ug/m3 | 74 | 105 | 70-130 |
| Carbon tetrachloride | ug/m3 | 85 | 105 | 70-130 |
| Benzene | ug/m3 | 43 | 95 | 70-130 |
| Cyclohexane | ug/m3 | 46 | 78 | 70-130 |
| 1,2-Dichloropropane | ug/m3 | 62 | 107 | 70-130 |
| 1,4-Dioxane | ug/m3 | 49 | 99 | 70-130 |
| 2,2,4-Trimethylpentane | ug/m3 | 63 | 96 | 70-130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/11/22

Date Received: 06/29/22

Project: BRIO, F&BI 206524

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: Laboratory Control Sample (continued)

| Analyte | Reporting Units | Spike Level | Percent | Acceptance |
|---------------------------|--------------------|----------------|-----------------|------------|
| | | | Recovery LCS | Criteria |
| Methyl methacrylate | ug/m3 | 55 | 92 | 70-130 |
| Heptane | ug/m3 | 55 | 93 | 70-130 |
| Bromodichloromethane | ug/m3 | 90 | 115 | 70-130 |
| Trichloroethene | ug/m3 | 73 | 111 | 70-130 |
| cis-1,3-Dichloropropene | ug/m3 | 61 | 109 | 70-130 |
| 4-Methyl-2-pentanone | ug/m3 | 55 | 100 | 70-130 |
| trans-1,3-Dichloropropene | ug/m3 | 61 | 103 | 70-130 |
| Toluene | ug/m3 | 51 | 102 | 70-130 |
| 1,1,2-Trichloroethane | ug/m3 | 74 | 118 | 70-130 |
| 2-Hexanone | ug/m3 | 55 | 96 | 70-130 |
| Tetrachloroethene | ug/m3 | 92 | 124 | 70-130 |
| Dibromochloromethane | ug/m3 | 120 | 124 | 70-130 |
| 1,2-Dibromoethane (EDB) | ug/m3 | 100 | 111 | 70-130 |
| Chlorobenzene | ug/m3 | 62 | 111 | 70-130 |
| Ethylbenzene | ug/m3 | 59 | 93 | 70-130 |
| 1,1,2,2-Tetrachloroethane | ug/m3 | 93 | 113 | 70-130 |
| Nonane | ug/m3 | 71 | 86 | 70-130 |
| Isopropylbenzene | ug/m3 | 66 | 116 | 70-130 |
| 2-Chlorotoluene | ug/m3 | 70 | 109 | 70-130 |
| Propylbenzene | ug/m3 | 66 | 106 | 70-130 |
| 4-Ethyltoluene | ug/m3 | 66 | 97 | 70-130 |
| m,p-Xylene | ug/m3 | 120 | 102 | 70-130 |
| o-Xylene | ug/m3 | 59 | 105 | 70-130 |
| Styrene | ug/m3 | 58 | 95 | 70-130 |
| Bromoform | ug/m3 | 140 | 119 | 70-130 |
| Benzyl chloride | ug/m3 | 70 | 107 | 70-130 |
| 1,3,5-Trimethylbenzene | ug/m3 | 66 | 100 | 70-130 |
| 1,2,4-Trimethylbenzene | ug/m3 | 66 | 99 | 70-130 |
| 1,3-Dichlorobenzene | ug/m3 | 81 | 124 | 70-130 |
| 1,4-Dichlorobenzene | ug/m3 | 81 | 118 | 70-130 |
| 1,2-Dichlorobenzene | ug/m3 | 81 | 123 | 70-130 |
| 1,2,4-Trichlorobenzene | ug/m3 | 100 | 126 | 70-130 |
| Naphthalene | ug/m3 | 71 | 112 | 70-130 |
| Hexachlorobutadiene | ug/m3 | 140 | 126 | 70-130 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

SAMPLE CHAIN OF CUSTODY

Page # 6/29/22 of 22

SAMPLES (signature) John Madden
 PROJECT NAME & ADDRESS 201 W. Wynn Dawson & Conner NW Helena
 PO #

GRID
 NOTES:

INVOICE TO

TURNAROUND TIME
 Standard
 RUSH
 Rush charges authorized by:

SAMPLE DISPOSAL
 Default: Clean after 3 days
 Archive (Fee may apply)

Company Point Source Solutions
 Address 537 NE St. Johns
 City, State, ZIP Vancouver, WA 98664
 Phone 503 916 9204 Email g.j@point-sourcesolutions.com

SAMPLE INFORMATION

| Sample Name | Lab ID | Canister ID | Flow Cont. ID | Reporting Level: IA=Indoor Air SG=Soil Gas (Circle One) | Date Sampled | Initial Vac. ("Hg) | Field Initial Time | Final Vac. ("Hg) | Field Final Time | ANALYSIS REQUESTED | | | Notes |
|-------------|--------|-------------|---------------|--|--------------|--------------------|--------------------|------------------|------------------|-------------------------------------|-------------------------------------|-------------------------------------|---|
| | | | | | | | | | | TO15 Full Scan | TO15 BTEXN | TO15 cVOCs | |
| PS1 | 01 | 3390 | 308 | IA / SG | 6/29/22 | -29 | 9:11 | 5 | 9:21 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | TPH-ERC Full List VOCs 2-propanol |
| | | | | IA / SG | | | | | | | | | |
| | | | | IA / SG | | | | | | | | | |
| | | | | IA / SG | | | | | | | | | |
| | | | | IA / SG | | | | | | | | | |
| | | | | IA / SG | | | | | | | | | |
| | | | | IA / SG | | | | | | | | | |
| | | | | IA / SG | | | | | | | | | |
| | | | | IA / SG | | | | | | | | | |
| | | | | IA / SG | | | | | | | | | |

| SIGNATURE | | PRINT NAME | | COMPANY | DATE | TIME |
|-------------------------------------|--|---------------------|--|---------------------|---------|-------|
| Relinquished by: <u>John Madden</u> | | <u>John Madden</u> | | PSS | 6/29/22 | 16:14 |
| Received by: <u>W. Madden</u> | | <u>Windy Madden</u> | | FBI | 6/29/22 | 16:14 |
| Relinquished by: | | | | | | |
| Received by: | | | | Samples received at | 22 °C | |

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282
 Fax (206) 283-5044

APPENDIX B

FIELD FORMS

| PROJECT: | Brio - 3912 N Vancouver | | PM: | Gil Cobb | | DATE: | 6/21/22 | | |
|--|--|------------|-----|------------|-----|-------|---------|-------|---|
| CONDITIONS: | 60s, overcast | | | | | | | | |
| LOCATION: | Center | | | SAMPLE ID: | 552 | | | | |
| Soil Gas or Sub-slab (circle one) | (TO-15 or TO-17 (circle one)) | | SN: | 3432 | Ti | 9:29 | Tr | 9:34 | |
| SAMPLE DEPTH: | N/A | Flow Rate: | N/A | Reg ID: | 101 | Pr | 30 | Pr | 5 |
| Time | Task Description | | | | | | | | |
| 9:23 | Purged for 3 min at 100 ml/min, no change in water level introduced to well noted as primary leak check. | | | | | | | | |
| 9:29 | Set 2-prop leak check, opened register | | | | | | | | |
| 9:34 | collected 552 | | | | | | | | |
| LOCATION: | SW garage floor | | | SAMPLE ID: | 551 | | | | |
| Soil Gas or Sub-slab (circle one) | (TO-15 or TO-17 (circle one)) | | SN: | 3386 | Ti | 9:46 | Tr | 9:58 | |
| SAMPLE DEPTH: | N/A | Flow Rate: | N/A | Reg ID: | 229 | Pr | 30 | Pr | 5 |
| Time | Task Description | | | | | | | | |
| 9:40 | Purged for 3 min at 100 ml/min, no change in water level introduced to well noted as primary leak check | | | | | | | | |
| 9:46 | Set 2-prop leak check, opened register | | | | | | | | |
| 9:58 | collected 551 | | | | | | | | |
| LOCATION: | Passive System Stub-Up | | | SAMPLE ID: | PS1 | | | | |
| Soil Gas or Sub-slab (circle one) | (TO-15 or TO-17 (circle one)) | | SN: | 2434 | Ti | 10:39 | Tr | 10:43 | |
| SAMPLE DEPTH: | N/A | Flow Rate: | N/A | Reg ID: | 108 | Pr | 21 | Pr | 5 |
| Time | Task Description | | | | | | | | |
| 10:35 | Purged for 3 min at 100 ml/min | | | | | | | | |
| 10:39 | Set 2-prop leak check, opened register | | | | | | | | |
| 10:43 | collected PS1 | | | | | | | | |
| called Eric at F&B. Said could not check can with another flow controller w/o continuity can with other sample. Said to sample any way with low initial pressure and eval. later | | | | | | | | | |

| | | |
|--|------------------------------------|---------------|
| PROJECT: 3912 N Vancouver / Brio | PM: Gil Cobb | DATE: 6/28/22 |
| CONDITIONS: 605, clear | | |
| LOCATION: 3912 N Vancouver | SAMPLE ID: PSI (passive system) | |
| Soil Gas or <u>Sub-slab</u> (circle one) | <u>TO-15</u> or TO-17 (circle one) | SN: 3390 |
| | | Ti 9:11 |
| | | Tr 9:21 |
| SAMPLE DEPTH: NA | Flow Rate: NA | Reg ID: 308 |
| | | Pi 29 |
| | | Pf 5 |

| Time | Task Description |
|------|--|
| 9:05 | Purged system for 3 minutes @ 100 ml/min |
| 9:08 | Set 2-prop leak check. |
| 9:11 | collected PSI → recollect due to prior canister malfunction. |

| | |
|-----------------------------------|-----------------------------|
| LOCATION: | SAMPLE ID: |
| Soil Gas or Sub-slab (circle one) | TO-15 or TO-17 (circle one) |
| | SN: |
| | Ti |
| | Tr |
| SAMPLE DEPTH: | Flow Rate: |
| | Reg ID: |
| | Pi |
| | Pf |

| Time | Task Description |
|------|------------------|
| | |
| | |
| | |

| | |
|-----------------------------------|-----------------------------|
| LOCATION: | SAMPLE ID: |
| Soil Gas or Sub-slab (circle one) | TO-15 or TO-17 (circle one) |
| | SN: |
| | Ti |
| | Tr |
| SAMPLE DEPTH: | Flow Rate: |
| | Reg ID: |
| | Pi |
| | Pf |

| Time | Task Description |
|------|------------------|
| | |
| | |
| | |