

TECHNICAL MEMORANDUM

DATE June 19, 2023

Project No. 22524317

TO Mr. Frank Abrantes Access Property Development

FROM Philippe Chevrette and Paul Hurst

EMAIL Philippe.Chevrette@wsp.com

864 LADY ELLEN PLACE, SUPPLEMENTAL SOIL VAPOUR SAMPLING

Background

WSP Canada Inc. ("WSP"), was retained by Access Property Developments (the "Client") to conduct a Phase Two Environmental Site Assessment ("Phase Two ESA") of the property located at 864 Lady Ellen Place in Ottawa, Ontario (the "Site" or the "Phase Two Property").

The analytical results from the sampling and analysis program indicates that the reported concentrations of trichloroethylene (TCE) and chloroform in groundwater as well as hydrocarbons, Electrical Conductivity (EC) and Sodium Absorption Rate in soil at the Phase Two Property do not meet the applicable Ministry of the Environment, Conservation and Parks ("MECP") Table 3 site condition standards for commercial use with coarse textured soil in a non-potable groundwater setting ("MECP Table 3 Standards")¹. The reported concentrations of all other parameters tested in soil and groundwater were below the Table 3 Standards.

Given the presence of TCE and chloroform in groundwater greater than the MECP Table 3 Standards, a potential risk was identified with the presence these parameters in groundwater as a potential source of vapours into future site building(s). As such, an initial soil vapour sampling program was conducted in November 2022 to evaluate this potential. Based on the results of the initial sampling program the potential risks from vapour intrusion from VOC impacted groundwater were deemed to be low. The results of the initial soil vapour sampling event were based on a single round of soil vapour sampling.

To account for potential seasonal effects, WSP conducted a second round of soil vapour sampling on site on May 15, 2023. Based on the two rounds of vapour sampling, potential risks from vapour intrusion from TCE and chloroform impacted groundwater were deemed acceptable and no further action is required. This technical memorandum summarizes the results of the soil vapour sampling conducted in November 2022 and May 2023.

Methods

During both sampling events (November 2022 and May 2023), soil vapour probes were purged prior to sample collection. Prior to purging, an initial reading was taken from the probe using an RKI GX-6000 PID capable of reading parts per billion (ppb). During the purge, performance testing was completed on the probe.

¹ Soil, Groundwater and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, Ministry of the Environment, April 15, 2011 (PIBS# 7382e01)

A leak testing program was implemented to assess whether there may be an introduction of atmospheric air into the soil vapour probes during the sampling program. Leak testing was conducted on probes prior to sampling. The leak test was performed by applying a tracer compound (helium) in a plastic shroud surrounding the probe assembly at the ground surface; a soil gas sample from the probe was then analyzed for helium.

In order to leak test, the soil vapour kit inlet barb was connected to the vapour probe by running a hose through a small hole in the top of the plastic shroud. The vapour probe valve was opened, and the helium analyzer was connected to a second small hole in the top of the shroud. Next, the shroud was slowly filled with ultra-pure helium gas until the measured concentration stabilized (to a minimum of 20%). The sampling pump was then turned on and allowed to run for approximately five minutes. A Tedlar sampling bag was then connected and filled to between 20-50% and analyzed using the helium analyzer. Helium concentrations in the sample bag below 2% of the concentration in the shroud were considered acceptable.

Performance testing was conducted on all probes that were leak tested. The purpose of the performance testing was to verify that an acceptable soil gas flow rate and vacuum could be achieved, and to confirm sampling flow rate for collection of samples for laboratory analysis. Flow and vacuum may vary depending on soil moisture and soil type. A vacuum test from approximately 0 to 2.5 kilopascals (kPa) indicates that soil vapour is readily able to penetrate through the soil and be collected effectively from the probe. The vapour probe was connected to the inlet barb on the soil vapour sampling kit. The pump was turned on and flow was adjusted to approximately 100-200 mL/min for all probes. Once the vacuum/flow stabilized, the readings were recorded.

The leak and performance test results for probes sampled were considered acceptable. The results for all probes are presented in Table A below.

| Vapour Probe | Sample Date | Performance Test (flow rate LPM) >0.005 LPM acceptable | Helium in Shroud (%) [>10% target] | Helium in Bag (%) <2% acceptable |
|--------------|-------------|---|---------------------------------------|-------------------------------------|
| SVP-22-1 | 10-Nov-22 | 0.1 | 21.5 | 0 |
| SVP-22-2 | 10-Nov-22 | 0.1 | 25 | 0 |
| SVP-22-1 | 15-May-23 | NS | NS | NS |
| SVP-22-2 | 15-May-23 | 0.1 | 35 | 0 |

Table A: Vapour Probe Performance and Leak Detection Testing

Notes: LPM = litres per minute; NS = Not sampled due to inoperable condition

Soil Vapour Results

Soil vapour results were compared to soil vapour screening levels (SVSLs). The SVSLs were calculated by dividing the applicable commercial/industrial Health-Based Indoor Air Criteria (HBIAC) (MOECC, 2016) by an applicable commercial/industrial attenuation factor (0.004) that accounts for the attenuation that occurs from soil vapour to indoor air through subslab foundation (MOE, 2013).

COCs in soil vapour were identified using the following approach:

- Parameters that exceeded their applicable screening values were retained as COCs.
- Parameters measured above the detection limit for which no screening values are available were retained as COCs.
- Parameters which were not measured above the limit of detection, but whose detection limits exceeded the screening value, were evaluated on a case-by-case basis.
- Parameters which did not measure above the detection limit for which screening values are unavailable were not retained as COCs.

Although SVP22-1 could not be re-sampled during the May 2023 event, SVP22-2 (which was sampled during both events) had higher analyte concentrations for all detected VOCs on November 11, 2022 and as such was deemed the worst case soil vapour probe based on the data available. The soil vapour results are shown in Table 1. Based on the screening approach outlined above, no COCs were identified in soil vapour in either sampling event.

Conclusions

Based on the results of the soil vapour sampling which includes two sampling events to account for seasonal fluctuation, potential risks from vapour intrusion from TCE and chloroform impacted groundwater were deemed acceptable and no further action is required.

WSP Canada Inc.

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PC/PH/sg https://golderassociates.sharepoint.com/sites/162763/project.files/6 deliverables/soil vapour letter/22524317-tm-suppl soil vapour sampling - lady ellen.docx

Attachments: Table 7A: Analytical Results for Soil Vapour Certificates of Analysis

Table 7A: Analytical Results For Soil Vapour

| Bureau Veritas ID | | | UGU743 | UGU744 | UGU745 | VVB991 | VVB992 |
|-------------------------------------|---------------------------|---------------------|------------------|-----------------|---------------|------------------|---------------|
| Sampling Date | | | 2022-11-10 | 2022-11-10 | 2022-11-10 | 2023-05-15 | 2023-05-15 |
| COC Number | | | 41365 | 41365 | 41365 | 51645 | 51645 |
| Calculated Parameters | UNITS | SVSL ⁽¹⁾ | SVP-22-1/SN10854 | SVP-22-2/SN1221 | DUP 1/SN6822 | SVP22-2 / SX2490 | DUP1 / SX0478 |
| 1 1 1 2 Totrachlaraothana | | 120.70 | <0.60 | <0.60 | SVP-22-2 | <0.60 | SVP-22-2 |
| 1,1,1,2-Tetrachioroethane | µg/m [*] | 120.79 | <0.09 | <0.09 8.32 | <0.09 7.67 | <0.09 | <0.09 5.17 |
| 1,1,2,2-Tetrachloroethane | µg/m [*] | 15 / 1 | <0.55 | <0.52 | 7.07 <0.69 | 4.90 | 5.17 <0.69 |
| 1 1 2-Trichloroethane | $\mu g/m$ | 55.87 | <0.09 | <0.09 | <0.09 | <0.09 | <0.09 |
| 1 1-Dichloroethane | µg/m | 29497 96 | <0.03 | <0.35 | <0.33 | <0.03 | <0.33 |
| 1 1-Dichloroethylene | µg/m ug/m ³ | 12514 29 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 |
| 1.2.4-Trichlorobenzene | ug/m ³ | 1430.20 | <3.7 | <3.7 | <3.7 | <3.7 | <3.7 |
| 1.2.4-Trimethylbenzene | ug/m ³ | NV | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 |
| 1.2-Dichlorobenzene | ug/m ³ | 107265.31 | <0.60 | <0.60 | <0.60 | <0.60 | <0.60 |
| 1,2-Dichloroethane | ug/m ³ | 34.38 | <0.40 | <1.2 | <1.2 | <0.40 | <0.40 |
| 1,2-Dichloropropane | ug/m ³ | 715.10 | <0.46 | <0.46 | <0.46 | <0.46 | <0.46 |
| 1,2-Dichlorotetrafluoroethane | ua/m ³ | NV | <1.2 | <2.8 | <2.8 | <1.2 | <1.2 |
| 1,3,5-Trimethylbenzene | ug/m ³ | NV | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 |
| 1,3-Butadiene | ua/m ³ | NV | <1.8 | <8.0 | <8.0 | <1.1 | <1.1 |
| 1,3-Dichlorobenzene | ug/m ³ | 223.47 | <2.4 | <2.4 | <2.4 | <2.4 | <2.4 |
| 1,4-Dichlorobenzene | ug/m ³ | 223.47 | <0.60 | <0.60 | <0.60 | <0.60 | <0.60 |
| 1,4-Dioxane | µg/m ³ | 643591.84 | <3.6 | <3.6 | <3.6 | <3.6 | <3.6 |
| 2,2,4-Trimethylpentane | µa/m ³ | 446938.78 | <0.93 | <1.4 | <1.4 | <0.93 | <0.93 |
| 2-propanol | µq/m ³ | NV | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 |
| 2-Propanone | µg/m ³ | 2145306.12 | <19 | 31.3 | 29.2 | 3 | 4.2 |
| 4-ethyltoluene | µq/m ³ | NV | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 |
| Benzene | µq/m ³ | 406.31 | 5.56 | 43.3 | 39.3 | <0.32 | 0.34 |
| Benzyl chloride | µg/m ³ | NV | <2.6 | <2.6 | <2.6 | <2.6 | <2.6 |
| Bromodichloromethane | µg/m ³ | NV | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 |
| Bromoform | µg/m ³ | NV | <2.1 | <2.1 | <2.1 | <2.1 | <2.1 |
| Bromomethane | µg/m ³ | 893.88 | < 0.39 | <0.39 | <0.39 | <0.39 | <0.39 |
| Carbon Disulfide ⁽³⁾ | µg/m ³ | NV | 30.4 | 4.2 | 3.9 | <1.6 | <1.6 |
| Carbon Tetrachloride | µa/m ³ | 357.55 | <0.63 | <0.63 | <0.63 | <0.63 | <0.63 |
| Chlorobenzene | µg/m ³ | 178775.51 | <0.46 | <0.46 | <0.46 | <0.46 | <0.46 |
| Chloroethane | µg/m ³ | NV | <0.79 | <0.79 | <0.79 | <0.79 | <0.79 |
| Chloroform | µg/m ³ | 17877.55 | <0.49 | 5.37 | 4.85 | <0.49 | <0.49 |
| Chloromethane | µg/m ³ | NV | <0.62 | <0.62 | <0.62 | <0.62 | <0.62 |
| cis-1,2-Dichloroethylene | µg/m ³ | 26816.33 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 |
| cis-1,3-Dichloropropene | µg/m ³ | 223.47 | <0.45 | <0.45 | <0.45 | <0.45 | <0.45 |
| Cyclohexane | µg/m ³ | 1525000.00 | 7.97 | <14 | <14 | <0.69 | <0.69 |
| Dibromochloromethane | µg/m ³ | NV | <1.7 | <1.7 | <1.7 | <1.7 | <1.7 |
| Dichlorodifluoromethane (FREON 12) | µg/m ³ | NV | 2.59 | 10.3 | 10 | 5 | 5.41 |
| Ethanol (ethyl alcohol) | µg/m ³ | NV | <1.9 | 4.4 | 6.1 | <1.9 | 2.1 |
| Ethyl Acetate | µg/m ³ | NV | <3.6 | <3.6 | <3.6 | <3.6 | <3.6 |
| Ethylbenzene | µg/m ³ | 178775.51 | <0.43 | 5.76 | 5.29 | <0.43 | <0.43 |
| Ethylene Dibromide | µg/m ³ | 1.49 | <0.77 | <0.77 | <0.77 | <0.77 | <0.77 |
| Heptane ⁽³⁾ | µg/m ³ | NV | 7 | 55.7 | 50.8 | <1.2 | <1.2 |
| Hexachlorobutadiene | µg/m ³ | 40.63 | <5.3 | <5.3 | <5.3 | <5.3 | <5.3 |
| Hexane | µg/m ³ | 446938.78 | 15.2 | 503 | 460 | <0.70 | <0.70 |
| Methyl Butyl Ketone (2-Hexanone) | µg/m ³ | NV | <4.1 | <4.1 | <4.1 | <4.1 | <4.1 |
| Methyl Ethyl Ketone (2-Butanone) | µg/m ³ | 250686.81 | <2.9 | 5.62 | 5.68 | <1.2 | <2.4 |
| Methyl Isobutyl Ketone | µg/m ³ | 150412.09 | <0.82 | <1.2 | <1.2 | <0.82 | <0.82 |
| Methyl t-butyl ether (MTBE) | µg/m ³ | 3437.99 | <0.72 | <0.72 | <0.72 | <0.72 | <0.72 |
| Methylene Chloride(Dichloromethane) | µg/m ³ | 38864.24 | <2.1 | <2.1 | <2.1 | <2.1 | <2.1 |
| Naphthalene | µg/m ³ | 661.47 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| o-Xylene ⁽²⁾ | µg/m ³ | NV | 0.56 | 8.08 | 7.48 | <0.43 | <0.43 |
| p+m-Xylene ⁽²⁾ | µg/m ³ | NV | 1.43 | 19.4 | 17.8 | <0.87 | <0.87 |
| Propene | µg/m ³ | NV | 77.2 | 311 | 294 | <1.7 | <1.7 |
| Styrene | µg/m ³ | 46481.63 | <0.43 | <0.43 | <0.43 | <0.43 | <0.43 |
| Tetrachloroethylene | µg/m ³ | 3437.99 | <0.68 | <0.68 | <0.68 | <0.68 | <0.68 |
| Tetrahydrofuran | µg/m ³ | NV | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 |
| loluene | µg/m ³ | 893877.55 | 8.66 | 19.7 | 18.6 | <0.38 | 0.45 |
| I otal Xylenes | µg/m ³ | 125142.86 | 2 | 27.5 | 25.3 | <1.3 | <1.3 |
| trans-1,2-Dichloroethylene | µg/m ³ | 10726.53 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 |
| trans-1,3-Dichloropropene | µg/m ³ | 223.47 | <0.45 | <0.45 | <0.45 | <0.45 | <0.45 |
| Trichloroethylene | µg/m ³ | 218.02 | <0.54 | <0.54 | <0.54 | <0.54 | <0.54 |
| Trichlorofluoromethane (FREON 11) | µg/m ³ | NV | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 |
| Trichlorotrifluoroethane | µg/m ³ | NV | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 |
| Vinyl Acetate | µg/m ³ | NV | <0.70 | <0.70 | <0.70 | <0.70 | <0.70 |
| Vinyl Bromide | µg/m ³ | NV | <0.87 | <0.87 | <0.87 | <0.87 | <0.87 |
| Vinyl Chloride | µg/m ³ | 101.58 | <0.26 | <0.26 | <0.26 | <0.26 | <0.26 |

Notes:

 μ g/m³ = microgram per cubic metre; NV = no value; < = less than reportable detection limit

(1) Soil Vapour Screening Level (SVSL) calculated as the MOECC (2016) Industrial Health Based Indoor Air Criteria (HBIAC) divided by a conservative commercial attenuation factor of 0.004 (MOE, 2013)

(2) Assessed as total xylenes.

(3) Not a contaminant of concern given that it was not detected in soil or groundwater



- = Concentration above Soil Vapour Screening Level
- = Minimum detection limit above Soil Vapour Screening Level
- = Detected concentration with no available Soil Vapour Screening Level

References:

Ontario Ministry of the Environment (MOE), 2013. Draft Technical Guidance Soil Vapour Intrusion Assessment. PIBS #8477. Dated September 2013.

Ontario Ministry of the Environment and Climate Change (MOECC), 2016. Approved Model, November 1, 2016. Queen's Printer for Ontario, 2016. PIBS 7381e01



Your Project #: 22524317 Site Location: LADY ELLEN PARK Your C.O.C. #: 41365

Attention: Phil Chevrette

Golder Associates Ltd 1931 Robertson Rd Ottawa, ON CANADA K2H 5B7

> Report Date: 2022/11/17 Report #: R7392205 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2X1275 Received: 2022/11/11, 09:00

Sample Matrix: Air

Samples Received: 3

| | | Date | Date | | |
|--------------------------------------|----------|-----------|------------|-------------------|-------------------|
| Analyses | Quantity | Extracted | Analyzed | Laboratory Method | Analytical Method |
| Canister Pressure (TO-15) | 3 | N/A | 2022/11/14 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air (ug/m3) | 3 | N/A | 2022/11/16 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air (TO-15) (1) | 3 | N/A | 2022/11/14 | BRL SOP-00304 | EPA TO-15 m |

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

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Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days or as contractually agreed from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

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Your Project #: 22524317 Site Location: LADY ELLEN PARK Your C.O.C. #: 41365

Attention: Phil Chevrette

Golder Associates Ltd 1931 Robertson Rd Ottawa, ON CANADA K2H 5B7

> Report Date: 2022/11/17 Report #: R7392205 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2X1275 Received: 2022/11/11, 09:00

Encryption Key

Motina Bacchus

Cristina (Maria) Bacchus Project Manager 17 Nov 2022 14:54:32

Please direct all questions regarding this Certificate of Analysis to: Cristina (Maria) Bacchus, Project Manager Email: maria.bacchus@bureauveritas.com Phone# (905)817-5763

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> Total Cover Pages : 2 Page 2 of 16 Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com



RESULTS OF ANALYSES OF AIR

| Bureau Veritas ID | | UGU743 | UGU744 | UGU745 | | | | | |
|----------------------------------|-------|------------------|-----------------|--------------|----------|--|--|--|--|
| Sampling Date | | 2022/11/10 | 2022/11/10 | 2022/11/10 | | | | | |
| COC Number | | 41365 | 41365 | 41365 | | | | | |
| | UNITS | SVP-22-1/SN10854 | SVP-22-2/SN1221 | DUP 1/SN6822 | QC Batch | | | | |
| Volatile Organics | | | | | | | | | |
| Pressure on Receipt | psig | (-3.1) | (-4.0) | (-3.0) | 8344399 | | | | |
| QC Batch = Quality Control Batch | | | | | | | | | |



| Bureau Veritas ID | | UGU743 | | UGU744 | UGU745 | | |
|--|-------|------------------|------|-----------------|--------------|------|----------|
| Sampling Date | | 2022/11/10 | | 2022/11/10 | 2022/11/10 | | |
| COC Number | | 41365 | | 41365 | 41365 | | |
| | UNITS | SVP-22-1/SN10854 | RDL | SVP-22-2/SN1221 | DUP 1/SN6822 | RDL | QC Batch |
| Volatile Organics | | | | - | - | | |
| Dichlorodifluoromethane (FREON 12) | ppbv | 0.52 | 0.20 | 2.09 | 2.03 | 0.20 | 8344129 |
| 1,2-Dichlorotetrafluoroethane | ppbv | <0.17 | 0.17 | <0.40 | <0.40 | 0.40 | 8344129 |
| Chloromethane | ppbv | <0.30 | 0.30 | <0.30 | <0.30 | 0.30 | 8344129 |
| Vinyl Chloride | ppbv | <0.10 | 0.10 | <0.10 | <0.10 | 0.10 | 8344129 |
| Chloroethane | ppbv | <0.30 | 0.30 | <0.30 | <0.30 | 0.30 | 8344129 |
| 1,3-Butadiene | ppbv | <0.80 | 0.80 | <3.6 | <3.6 | 3.6 | 8344129 |
| Trichlorofluoromethane (FREON 11) | ppbv | <0.20 | 0.20 | <0.20 | <0.20 | 0.20 | 8344129 |
| Ethanol (ethyl alcohol) | ppbv | <1.0 | 1.0 | 2.4 | 3.2 | 1.0 | 8344129 |
| Trichlorotrifluoroethane | ppbv | <0.15 | 0.15 | <0.15 | <0.15 | 0.15 | 8344129 |
| 2-propanol | ppbv | <1.0 | 1.0 | <1.0 | <1.0 | 1.0 | 8344129 |
| 2-Propanone | ppbv | <8.0 | 8.0 | 13.2 | 12.3 | 0.60 | 8344129 |
| Methyl Ethyl Ketone (2-Butanone) | ppbv | <1.0 | 1.0 | 1.90 | 1.93 | 0.20 | 8344129 |
| Methyl Isobutyl Ketone | ppbv | <0.20 | 0.20 | <0.30 | <0.30 | 0.30 | 8344129 |
| Methyl Butyl Ketone (2-Hexanone) | ppbv | <1.0 | 1.0 | <1.0 | <1.0 | 1.0 | 8344129 |
| Methyl t-butyl ether (MTBE) | ppbv | <0.20 | 0.20 | <0.20 | <0.20 | 0.20 | 8344129 |
| Ethyl Acetate | ppbv | <1.0 | 1.0 | <1.0 | <1.0 | 1.0 | 8344129 |
| 1,1-Dichloroethylene | ppbv | <0.10 | 0.10 | <0.10 | <0.10 | 0.10 | 8344129 |
| cis-1,2-Dichloroethylene | ppbv | <0.10 | 0.10 | <0.10 | <0.10 | 0.10 | 8344129 |
| trans-1,2-Dichloroethylene | ppbv | <0.10 | 0.10 | <0.10 | <0.10 | 0.10 | 8344129 |
| Methylene Chloride(Dichloromethane) | ppbv | <0.60 | 0.60 | <0.60 | <0.60 | 0.60 | 8344129 |
| Chloroform | ppbv | <0.10 | 0.10 | 1.10 | 0.99 | 0.10 | 8344129 |
| Carbon Tetrachloride | ppbv | <0.10 | 0.10 | <0.10 | <0.10 | 0.10 | 8344129 |
| 1,1-Dichloroethane | ppbv | <0.10 | 0.10 | <0.10 | <0.10 | 0.10 | 8344129 |
| 1,2-Dichloroethane | ppbv | <0.10 | 0.10 | <0.30 | <0.30 | 0.30 | 8344129 |
| Ethylene Dibromide | ppbv | <0.10 | 0.10 | <0.10 | <0.10 | 0.10 | 8344129 |
| 1,1,1-Trichloroethane | ppbv | <0.10 | 0.10 | 1.52 | 1.41 | 0.10 | 8344129 |
| 1,1,2-Trichloroethane | ppbv | <0.10 | 0.10 | <0.10 | <0.10 | 0.10 | 8344129 |
| 1,1,2,2-Tetrachloroethane | ppbv | <0.10 | 0.10 | <0.10 | <0.10 | 0.10 | 8344129 |
| cis-1,3-Dichloropropene | ppbv | <0.10 | 0.10 | <0.10 | <0.10 | 0.10 | 8344129 |
| trans-1,3-Dichloropropene | ppbv | <0.10 | 0.10 | <0.10 | <0.10 | 0.10 | 8344129 |
| 1,2-Dichloropropane | ppbv | <0.10 | 0.10 | <0.10 | <0.10 | 0.10 | 8344129 |
| Bromomethane | ppbv | <0.10 | 0.10 | <0.10 | <0.10 | 0.10 | 8344129 |
| RDL = Reportable Detection Limit QC Batch = Quality Control Batch | | | | | | | |



| Bureau Veritas ID | | UGU743 | | UGU744 | UGU745 | | |
|--|-------|------------------|------|-----------------|--------------|------|----------|
| Sampling Date | | 2022/11/10 | | 2022/11/10 | 2022/11/10 | | |
| COC Number | | 41365 | | 41365 | 41365 | | |
| | UNITS | SVP-22-1/SN10854 | RDL | SVP-22-2/SN1221 | DUP 1/SN6822 | RDL | QC Batch |
| Bromoform | ppbv | <0.20 | 0.20 | <0.20 | <0.20 | 0.20 | 8344129 |
| Bromodichloromethane | ppbv | <0.20 | 0.20 | <0.20 | <0.20 | 0.20 | 8344129 |
| Dibromochloromethane | ppbv | <0.20 | 0.20 | <0.20 | <0.20 | 0.20 | 8344129 |
| Trichloroethylene | ppbv | <0.10 | 0.10 | <0.10 | <0.10 | 0.10 | 8344129 |
| Tetrachloroethylene | ppbv | <0.10 | 0.10 | <0.10 | <0.10 | 0.10 | 8344129 |
| Benzene | ppbv | 1.74 | 0.10 | 13.5 | 12.3 | 0.10 | 8344129 |
| Toluene | ppbv | 2.30 | 0.10 | 5.23 | 4.94 | 0.10 | 8344129 |
| Ethylbenzene | ppbv | <0.10 | 0.10 | 1.33 | 1.22 | 0.10 | 8344129 |
| p+m-Xylene | ppbv | 0.33 | 0.20 | 4.47 | 4.10 | 0.20 | 8344129 |
| o-Xylene | ppbv | 0.13 | 0.10 | 1.86 | 1.72 | 0.10 | 8344129 |
| Styrene | ppbv | <0.10 | 0.10 | <0.10 | <0.10 | 0.10 | 8344129 |
| 4-ethyltoluene | ppbv | <0.50 | 0.50 | <0.50 | <0.50 | 0.50 | 8344129 |
| 1,3,5-Trimethylbenzene | ppbv | <0.50 | 0.50 | <0.50 | <0.50 | 0.50 | 8344129 |
| 1,2,4-Trimethylbenzene | ppbv | <0.50 | 0.50 | <0.50 | <0.50 | 0.50 | 8344129 |
| Chlorobenzene | ppbv | <0.10 | 0.10 | <0.10 | <0.10 | 0.10 | 8344129 |
| Benzyl chloride | ppbv | <0.50 | 0.50 | <0.50 | <0.50 | 0.50 | 8344129 |
| 1,3-Dichlorobenzene | ppbv | <0.40 | 0.40 | <0.40 | <0.40 | 0.40 | 8344129 |
| 1,4-Dichlorobenzene | ppbv | <0.10 | 0.10 | <0.10 | <0.10 | 0.10 | 8344129 |
| 1,2-Dichlorobenzene | ppbv | <0.10 | 0.10 | <0.10 | <0.10 | 0.10 | 8344129 |
| 1,2,4-Trichlorobenzene | ppbv | <0.50 | 0.50 | <0.50 | <0.50 | 0.50 | 8344129 |
| Hexachlorobutadiene | ppbv | <0.50 | 0.50 | <0.50 | <0.50 | 0.50 | 8344129 |
| Hexane | ppbv | 4.32 | 0.20 | 143 | 130 | 0.20 | 8344129 |
| Heptane | ppbv | 1.71 | 0.30 | 13.6 | 12.4 | 0.30 | 8344129 |
| Cyclohexane | ppbv | 2.32 | 0.20 | <4.0 | <4.0 | 4.0 | 8344129 |
| Tetrahydrofuran | ppbv | <0.40 | 0.40 | <0.40 | <0.40 | 0.40 | 8344129 |
| 1,4-Dioxane | ppbv | <1.0 | 1.0 | <1.0 | <1.0 | 1.0 | 8344129 |
| Naphthalene | ppbv | <0.20 | 0.20 | <0.20 | <0.20 | 0.20 | 8344129 |
| Total Xylenes | ppbv | 0.46 | 0.30 | 6.33 | 5.83 | 0.30 | 8344129 |
| 1,1,1,2-Tetrachloroethane | ppbv | <0.10 | 0.10 | <0.10 | <0.10 | 0.10 | 8344129 |
| Vinyl Bromide | ppbv | <0.20 | 0.20 | <0.20 | <0.20 | 0.20 | 8344129 |
| Propene | ppbv | 44.9 | 0.50 | 180 | 171 | 0.50 | 8344129 |
| 2,2,4-Trimethylpentane | ppbv | <0.20 | 0.20 | <0.30 | <0.30 | 0.30 | 8344129 |
| Carbon Disulfide | ppbv | 9.77 | 0.50 | 1.35 | 1.25 | 0.50 | 8344129 |
| RDL = Reportable Detection Limit OC Batch = Quality Control Batch | | | | | | · | |



| Bureau Veritas ID | | UGU743 | | UGU744 | UGU745 | | |
|----------------------------------|-------|------------------|------|-----------------|--------------|------|----------|
| Sampling Date | | 2022/11/10 | | 2022/11/10 | 2022/11/10 | | |
| COC Number | | 41365 | | 41365 | 41365 | | |
| | UNITS | SVP-22-1/SN10854 | RDL | SVP-22-2/SN1221 | DUP 1/SN6822 | RDL | QC Batch |
| Vinyl Acetate | ppbv | <0.20 | 0.20 | <0.20 | <0.20 | 0.20 | 8344129 |
| Surrogate Recovery (%) | | | | | | | |
| Bromochloromethane | % | 92 | | 95 | 103 | | 8344129 |
| D5-Chlorobenzene | % | 85 | | 95 | 101 | | 8344129 |
| Difluorobenzene | % | 92 | | 96 | 105 | | 8344129 |
| RDL = Reportable Detection Limit | | | | | | | |
| QC Batch = Quality Control Batch | | | | | | | |



CALCULATED VOLATILE ORGANICS (AIR)

| Bureau Veritas ID | | UGU743 | | UGU744 | UGU745 | | |
|-------------------------------------|-------|------------------|------|-----------------|--------------|----------|----------|
| Sampling Date | | 2022/11/10 | | 2022/11/10 | 2022/11/10 | | |
| COC Number | | 41365 | | 41365 | 41365 | | |
| | UNITS | SVP-22-1/SN10854 | RDL | SVP-22-2/SN1221 | DUP 1/SN6822 | RDL | QC Batch |
| Calculated Parameters | | | - | - | - | <u> </u> | |
| Dichlorodifluoromethane (FREON 12) | ug/m3 | 2.59 | 0.99 | 10.3 | 10.0 | 0.99 | 8340429 |
| 1,2-Dichlorotetrafluoroethane | ug/m3 | <1.2 | 1.2 | <2.8 | <2.8 | 2.8 | 8340429 |
| Chloromethane | ug/m3 | <0.62 | 0.62 | <0.62 | <0.62 | 0.62 | 8340429 |
| Vinyl Chloride | ug/m3 | <0.26 | 0.26 | <0.26 | <0.26 | 0.26 | 8340429 |
| Chloroethane | ug/m3 | <0.79 | 0.79 | <0.79 | <0.79 | 0.79 | 8340429 |
| 1,3-Butadiene | ug/m3 | <1.8 | 1.8 | <8.0 | <8.0 | 8.0 | 8340429 |
| Trichlorofluoromethane (FREON 11) | ug/m3 | <1.1 | 1.1 | <1.1 | <1.1 | 1.1 | 8340429 |
| Ethanol (ethyl alcohol) | ug/m3 | <1.9 | 1.9 | 4.4 | 6.1 | 1.9 | 8340429 |
| Trichlorotrifluoroethane | ug/m3 | <1.2 | 1.2 | <1.2 | <1.2 | 1.2 | 8340429 |
| 2-propanol | ug/m3 | <2.5 | 2.5 | <2.5 | <2.5 | 2.5 | 8340429 |
| 2-Propanone | ug/m3 | <19 | 19 | 31.3 | 29.2 | 1.4 | 8340429 |
| Methyl Ethyl Ketone (2-Butanone) | ug/m3 | <2.9 | 2.9 | 5.62 | 5.68 | 0.59 | 8340429 |
| Methyl Isobutyl Ketone | ug/m3 | <0.82 | 0.82 | <1.2 | <1.2 | 1.2 | 8340429 |
| Methyl Butyl Ketone (2-Hexanone) | ug/m3 | <4.1 | 4.1 | <4.1 | <4.1 | 4.1 | 8340429 |
| Methyl t-butyl ether (MTBE) | ug/m3 | <0.72 | 0.72 | <0.72 | <0.72 | 0.72 | 8340429 |
| Ethyl Acetate | ug/m3 | <3.6 | 3.6 | <3.6 | <3.6 | 3.6 | 8340429 |
| 1,1-Dichloroethylene | ug/m3 | <0.40 | 0.40 | <0.40 | <0.40 | 0.40 | 8340429 |
| cis-1,2-Dichloroethylene | ug/m3 | <0.40 | 0.40 | <0.40 | <0.40 | 0.40 | 8340429 |
| trans-1,2-Dichloroethylene | ug/m3 | <0.40 | 0.40 | <0.40 | <0.40 | 0.40 | 8340429 |
| Methylene Chloride(Dichloromethane) | ug/m3 | <2.1 | 2.1 | <2.1 | <2.1 | 2.1 | 8340429 |
| Chloroform | ug/m3 | <0.49 | 0.49 | 5.37 | 4.85 | 0.49 | 8340429 |
| Carbon Tetrachloride | ug/m3 | <0.63 | 0.63 | <0.63 | <0.63 | 0.63 | 8340429 |
| 1,1-Dichloroethane | ug/m3 | <0.40 | 0.40 | <0.40 | <0.40 | 0.40 | 8340429 |
| 1,2-Dichloroethane | ug/m3 | <0.40 | 0.40 | <1.2 | <1.2 | 1.2 | 8340429 |
| Ethylene Dibromide | ug/m3 | <0.77 | 0.77 | <0.77 | <0.77 | 0.77 | 8340429 |
| 1,1,1-Trichloroethane | ug/m3 | <0.55 | 0.55 | 8.32 | 7.67 | 0.55 | 8340429 |
| 1,1,2-Trichloroethane | ug/m3 | <0.55 | 0.55 | <0.55 | <0.55 | 0.55 | 8340429 |
| 1,1,2,2-Tetrachloroethane | ug/m3 | <0.69 | 0.69 | <0.69 | <0.69 | 0.69 | 8340429 |
| cis-1,3-Dichloropropene | ug/m3 | <0.45 | 0.45 | <0.45 | <0.45 | 0.45 | 8340429 |
| trans-1,3-Dichloropropene | ug/m3 | <0.45 | 0.45 | <0.45 | <0.45 | 0.45 | 8340429 |
| 1,2-Dichloropropane | ug/m3 | <0.46 | 0.46 | <0.46 | <0.46 | 0.46 | 8340429 |
| Bromomethane | ug/m3 | <0.39 | 0.39 | <0.39 | <0.39 | 0.39 | 8340429 |
| RDL = Reportable Detection Limit | | | _ | | | | |
| QC Batch = Quality Control Batch | | | | | | | |



CALCULATED VOLATILE ORGANICS (AIR)

| Bureau Veritas ID | | UGU743 | | UGU744 | UGU745 | | |
|--|-------|------------------|------|-----------------|--------------|------|----------|
| Sampling Date | | 2022/11/10 | 1 | 2022/11/10 | 2022/11/10 | | |
| COC Number | | 41365 | | 41365 | 41365 | | |
| | UNITS | SVP-22-1/SN10854 | RDL | SVP-22-2/SN1221 | DUP 1/SN6822 | RDL | QC Batch |
| Bromoform | ug/m3 | <2.1 | 2.1 | <2.1 | <2.1 | 2.1 | 8340429 |
| Bromodichloromethane | ug/m3 | <1.3 | 1.3 | <1.3 | <1.3 | 1.3 | 8340429 |
| Dibromochloromethane | ug/m3 | <1.7 | 1.7 | <1.7 | <1.7 | 1.7 | 8340429 |
| Trichloroethylene | ug/m3 | <0.54 | 0.54 | <0.54 | <0.54 | 0.54 | 8340429 |
| Tetrachloroethylene | ug/m3 | <0.68 | 0.68 | <0.68 | <0.68 | 0.68 | 8340429 |
| Benzene | ug/m3 | 5.56 | 0.32 | 43.3 | 39.3 | 0.32 | 8340429 |
| Toluene | ug/m3 | 8.66 | 0.38 | 19.7 | 18.6 | 0.38 | 8340429 |
| Ethylbenzene | ug/m3 | <0.43 | 0.43 | 5.76 | 5.29 | 0.43 | 8340429 |
| p+m-Xylene | ug/m3 | 1.43 | 0.87 | 19.4 | 17.8 | 0.87 | 8340429 |
| o-Xylene | ug/m3 | 0.56 | 0.43 | 8.08 | 7.48 | 0.43 | 8340429 |
| Styrene | ug/m3 | <0.43 | 0.43 | <0.43 | <0.43 | 0.43 | 8340429 |
| 4-ethyltoluene | ug/m3 | <2.5 | 2.5 | <2.5 | <2.5 | 2.5 | 8340429 |
| 1,3,5-Trimethylbenzene | ug/m3 | <2.5 | 2.5 | <2.5 | <2.5 | 2.5 | 8340429 |
| 1,2,4-Trimethylbenzene | ug/m3 | <2.5 | 2.5 | <2.5 | <2.5 | 2.5 | 8340429 |
| Chlorobenzene | ug/m3 | <0.46 | 0.46 | <0.46 | <0.46 | 0.46 | 8340429 |
| Benzyl chloride | ug/m3 | <2.6 | 2.6 | <2.6 | <2.6 | 2.6 | 8340429 |
| 1,3-Dichlorobenzene | ug/m3 | <2.4 | 2.4 | <2.4 | <2.4 | 2.4 | 8340429 |
| 1,4-Dichlorobenzene | ug/m3 | <0.60 | 0.60 | <0.60 | <0.60 | 0.60 | 8340429 |
| 1,2-Dichlorobenzene | ug/m3 | <0.60 | 0.60 | <0.60 | <0.60 | 0.60 | 8340429 |
| 1,2,4-Trichlorobenzene | ug/m3 | <3.7 | 3.7 | <3.7 | <3.7 | 3.7 | 8340429 |
| Hexachlorobutadiene | ug/m3 | <5.3 | 5.3 | <5.3 | <5.3 | 5.3 | 8340429 |
| Hexane | ug/m3 | 15.2 | 0.70 | 503 | 460 | 0.70 | 8340429 |
| Heptane | ug/m3 | 7.0 | 1.2 | 55.7 | 50.8 | 1.2 | 8340429 |
| Cyclohexane | ug/m3 | 7.97 | 0.69 | <14 | <14 | 14 | 8340429 |
| Tetrahydrofuran | ug/m3 | <1.2 | 1.2 | <1.2 | <1.2 | 1.2 | 8340429 |
| 1,4-Dioxane | ug/m3 | <3.6 | 3.6 | <3.6 | <3.6 | 3.6 | 8340429 |
| Naphthalene | ug/m3 | <1.0 | 1.0 | <1.0 | <1.0 | 1.0 | 8340429 |
| Total Xylenes | ug/m3 | 2.0 | 1.3 | 27.5 | 25.3 | 1.3 | 8340429 |
| 1,1,1,2-Tetrachloroethane | ug/m3 | <0.69 | 0.69 | <0.69 | <0.69 | 0.69 | 8340429 |
| Vinyl Bromide | ug/m3 | <0.87 | 0.87 | <0.87 | <0.87 | 0.87 | 8340429 |
| Propene | ug/m3 | 77.2 | 0.86 | 311 | 294 | 0.86 | 8340429 |
| 2,2,4-Trimethylpentane | ug/m3 | <0.93 | 0.93 | <1.4 | <1.4 | 1.4 | 8340429 |
| Carbon Disulfide | ug/m3 | 30.4 | 1.6 | 4.2 | 3.9 | 1.6 | 8340429 |
| RDL = Reportable Detection Limit QC Batch = Quality Control Batch | - | • | | | | | |



CALCULATED VOLATILE ORGANICS (AIR)

| Bureau Veritas ID | | UGU743 | | UGU744 | UGU745 | | |
|----------------------------------|-------|------------------|------|-----------------|--------------|------|----------|
| Sampling Date | | 2022/11/10 | | 2022/11/10 | 2022/11/10 | | |
| COC Number | | 41365 | | 41365 | 41365 | | |
| | UNITS | SVP-22-1/SN10854 | RDL | SVP-22-2/SN1221 | DUP 1/SN6822 | RDL | QC Batch |
| Vinyl Acetate | ug/m3 | <0.70 | 0.70 | <0.70 | <0.70 | 0.70 | 8340429 |
| RDL = Reportable Detection Limit | | | | | | | |
| OC Batch - Quality Control Batch | | | | | | | |



Volatile Organics in Air (TO-15)

GC/MS

Golder Associates Ltd Client Project #: 22524317 Site Location: LADY ELLEN PARK Sampler Initials: PC

TEST SUMMARY

| Bureau Veritas ID: | UGU743 | | | | | Collected: | 2022/11/10 |
|---|--|---|--|---|---|---|---|
| Sample ID: Matrix: | SVP-22-1/SN10854 Air | | | | | Shipped: Received: | 2022/11/11 |
| Test Description | | Instrumentation | Batch | Extracted | Date Analyzed | Analyst | |
| Canister Pressure (TO-15) |) | PRES | 8344399 | N/A | 2022/11/14 | Nicholas Sm | nith |
| Volatile Organics in Air (u | g/m3) | GC/MS | 8340429 | N/A | 2022/11/16 | Automated | Statchk |
| Volatile Organics in Air (T | 0-15) | GC/MS | 8344129 | N/A | 2022/11/14 | Nicholas Sm | nith |
| Bureau Veritas ID: Sample ID: Matrix: | UGU744 SVP-22-2/SN1221 Air | | | | | Collected: Shipped: Received: | 2022/11/10 2022/11/11 |
| | | | | | | | |
| Test Description | | Instrumentation | Batch | Extracted | Date Analyzed | Analyst | |
| Test Description Canister Pressure (TO-15) |) | Instrumentation PRES | Batch 8344399 | Extracted N/A | Date Analyzed 2022/11/14 | Analyst Nicholas Sm | nith |
| Test Description Canister Pressure (TO-15) Volatile Organics in Air (u |) g/m3) | Instrumentation PRES GC/MS | Batch 8344399 8340429 | Extracted N/A N/A | Date Analyzed 2022/11/14 2022/11/16 | Analyst Nicholas Sm Automated | nith Statchk |
| Test Description Canister Pressure (TO-15) Volatile Organics in Air (u Volatile Organics in Air (T |) g/m3) O-15) | Instrumentation PRES GC/MS GC/MS | Batch 8344399 8340429 8344129 | Extracted N/A N/A N/A | Date Analyzed 2022/11/14 2022/11/16 2022/11/14 | Analyst Nicholas Sm Automated Nicholas Sm | nith Statchk nith |
| Test Description Canister Pressure (TO-15) Volatile Organics in Air (u Volatile Organics in Air (T Bureau Veritas ID: Sample ID: Matrix: |) g/m3) O-15) UGU745 DUP 1/SN6822 Air | Instrumentation PRES GC/MS GC/MS | Batch 8344399 8340429 8344129 | Extracted N/A N/A N/A | Date Analyzed 2022/11/14 2022/11/16 2022/11/14 | Analyst Nicholas Sm Automated Nicholas Sm Collected: Shipped: Received: | nith Statchk nith 2022/11/10 2022/11/11 |
| Test Description Canister Pressure (TO-15) Volatile Organics in Air (u Volatile Organics in Air (T Bureau Veritas ID: Sample ID: Matrix: Test Description |) g/m3) O-15) UGU745 DUP 1/SN6822 Air | Instrumentation PRES GC/MS GC/MS Instrumentation | Batch 8344399 8340429 8344129 Batch | Extracted N/A N/A N/A Extracted | Date Analyzed 2022/11/14 2022/11/16 2022/11/14 Date Analyzed | Analyst Nicholas Sn Automated Nicholas Sn Collected: Shipped: Received: Analyst | nith Statchk nith 2022/11/10 2022/11/11 |
| Test Description Canister Pressure (TO-15) Volatile Organics in Air (u Volatile Organics in Air (T Bureau Veritas ID: Sample ID: Matrix: Test Description Canister Pressure (TO-15) |) g/m3) O-15) UGU745 DUP 1/SN6822 Air | Instrumentation PRES GC/MS GC/MS Instrumentation PRES | Batch 8344399 8340429 8344129 Batch 8344399 | Extracted N/A N/A N/A Extracted | Date Analyzed 2022/11/14 2022/11/16 2022/11/14 Date Analyzed 2022/11/14 | Analyst Nicholas Sn Automated Nicholas Sn Collected: Shipped: Received: Analyst Nicholas Sn | nith Statchk nith 2022/11/10 2022/11/11 |

8344129

N/A

2022/11/14

Nicholas Smith

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.



GENERAL COMMENTS

Sample UGU743 [SVP-22-1/SN10854] : Increased DL for 1,3-butadiene, 2-propanone and 2-butanone due to interference.

Sample UGU744 [SVP-22-2/SN1221] : Increased DL for 1,2-dichlorodifluoromethane, 1,3-butadiene, 1,2-dichloroethane, cyclohexane, 2,2,4-trimethylpentane and methyl isobutyl ketone due to interference.

Sample UGU745 [DUP 1/SN6822] : Increased DL for 1,2-dichlorodifluoromethane, 1,3-butadiene, 1,2-dichloroethane, cyclohexane, 2,2,4-trimethylpentane and methyl isobutyl ketone due to interference.

Results relate only to the items tested.



QUALITY ASSURANCE REPORT

Golder Associates Ltd Client Project #: 22524317 Site Location: LADY ELLEN PARK Sampler Initials: PC

| | | | SPIKED I | BLANK | Method Blank | |
|----------|-------------------------------|------------|------------|-----------|--------------|-------|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS |
| 8344129 | Bromochloromethane | 2022/11/14 | 113 | 60 - 140 | 101 | % |
| 8344129 | D5-Chlorobenzene | 2022/11/14 | 110 | 60 - 140 | 90 | % |
| 8344129 | Difluorobenzene | 2022/11/14 | 112 | 60 - 140 | 99 | % |
| 8344129 | 1,1,1,2-Tetrachloroethane | 2022/11/14 | 101 | 70 - 130 | <0.10 | ppbv |
| 8344129 | 1,1,1-Trichloroethane | 2022/11/14 | 101 | 70 - 130 | <0.10 | ppbv |
| 8344129 | 1,1,2,2-Tetrachloroethane | 2022/11/14 | 92 | 70 - 130 | <0.10 | ppbv |
| 8344129 | 1,1,2-Trichloroethane | 2022/11/14 | 102 | 70 - 130 | <0.10 | ppbv |
| 8344129 | 1,1-Dichloroethane | 2022/11/14 | 98 | 70 - 130 | <0.10 | ppbv |
| 8344129 | 1,1-Dichloroethylene | 2022/11/14 | 100 | 70 - 130 | <0.10 | ppbv |
| 8344129 | 1,2,4-Trichlorobenzene | 2022/11/14 | 89 | 70 - 130 | <0.50 | ppbv |
| 8344129 | 1,2,4-Trimethylbenzene | 2022/11/14 | 104 | 70 - 130 | <0.50 | ppbv |
| 8344129 | 1,2-Dichlorobenzene | 2022/11/14 | 94 | 70 - 130 | <0.10 | ppbv |
| 8344129 | 1,2-Dichloroethane | 2022/11/14 | 97 | 70 - 130 | <0.10 | ppbv |
| 8344129 | 1,2-Dichloropropane | 2022/11/14 | 102 | 70 - 130 | <0.10 | ppbv |
| 8344129 | 1,2-Dichlorotetrafluoroethane | 2022/11/14 | 94 | 70 - 130 | <0.17 | ppbv |
| 8344129 | 1,3,5-Trimethylbenzene | 2022/11/14 | 97 | 70 - 130 | <0.50 | ppbv |
| 8344129 | 1,3-Butadiene | 2022/11/14 | 103 | 70 - 130 | <0.50 | ppbv |
| 8344129 | 1,3-Dichlorobenzene | 2022/11/14 | 98 | 70 - 130 | <0.40 | ppbv |
| 8344129 | 1,4-Dichlorobenzene | 2022/11/14 | 96 | 70 - 130 | <0.10 | ppbv |
| 8344129 | 1,4-Dioxane | 2022/11/14 | 102 | 70 - 130 | <1.0 | ppbv |
| 8344129 | 2,2,4-Trimethylpentane | 2022/11/14 | 106 | 70 - 130 | <0.20 | ppbv |
| 8344129 | 2-propanol | 2022/11/14 | 106 | 70 - 130 | <1.0 | ppbv |
| 8344129 | 2-Propanone | 2022/11/14 | 95 | 70 - 130 | <0.60 | ppbv |
| 8344129 | 4-ethyltoluene | 2022/11/14 | 106 | 70 - 130 | <0.50 | ppbv |
| 8344129 | Benzene | 2022/11/14 | 98 | 70 - 130 | <0.10 | ppbv |
| 8344129 | Benzyl chloride | 2022/11/14 | 117 | 70 - 130 | <0.50 | ppbv |
| 8344129 | Bromodichloromethane | 2022/11/14 | 97 | 70 - 130 | <0.20 | ppbv |
| 8344129 | Bromoform | 2022/11/14 | 103 | 70 - 130 | <0.20 | ppbv |
| 8344129 | Bromomethane | 2022/11/14 | 101 | 70 - 130 | <0.10 | ppbv |
| 8344129 | Carbon Disulfide | 2022/11/14 | 108 | 70 - 130 | <0.50 | ppbv |
| 8344129 | Carbon Tetrachloride | 2022/11/14 | 102 | 70 - 130 | <0.10 | ppbv |

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QUALITY ASSURANCE REPORT(CONT'D)

Golder Associates Ltd Client Project #: 22524317 Site Location: LADY ELLEN PARK Sampler Initials: PC

| | | | SPIKED I | BLANK | Method Blank | | |
|----------|-------------------------------------|------------|------------|-----------|--------------|-------|--|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | |
| 8344129 | Chlorobenzene | 2022/11/14 | 97 | 70 - 130 | <0.10 | ppbv | |
| 8344129 | Chloroethane | 2022/11/14 | 99 | 70 - 130 | <0.30 | ppbv | |
| 8344129 | Chloroform | 2022/11/14 | 100 | 70 - 130 | <0.10 | ppbv | |
| 8344129 | Chloromethane | 2022/11/14 | 92 | 70 - 130 | <0.30 | ppbv | |
| 8344129 | cis-1,2-Dichloroethylene | 2022/11/14 | 99 | 70 - 130 | <0.10 | ppbv | |
| 8344129 | cis-1,3-Dichloropropene | 2022/11/14 | 109 | 70 - 130 | <0.10 | ppbv | |
| 8344129 | Cyclohexane | 2022/11/14 | 98 | 70 - 130 | <0.20 | ppbv | |
| 8344129 | Dibromochloromethane | 2022/11/14 | 105 | 70 - 130 | <0.20 | ppbv | |
| 8344129 | Dichlorodifluoromethane (FREON 12) | 2022/11/14 | 98 | 70 - 130 | <0.20 | ppbv | |
| 8344129 | Ethanol (ethyl alcohol) | 2022/11/14 | 98 | 70 - 130 | <1.0 | ppbv | |
| 8344129 | Ethyl Acetate | 2022/11/14 | 105 | 70 - 130 | <1.0 | ppbv | |
| 8344129 | Ethylbenzene | 2022/11/14 | 105 | 70 - 130 | <0.10 | ppbv | |
| 8344129 | Ethylene Dibromide | 2022/11/14 | 107 | 70 - 130 | <0.10 | ppbv | |
| 8344129 | Heptane | 2022/11/14 | 105 | 70 - 130 | <0.30 | ppbv | |
| 8344129 | Hexachlorobutadiene | 2022/11/14 | 87 | 70 - 130 | <0.50 | ppbv | |
| 8344129 | Hexane | 2022/11/14 | 100 | 70 - 130 | <0.20 | ppbv | |
| 8344129 | Methyl Butyl Ketone (2-Hexanone) | 2022/11/14 | 108 | 70 - 130 | <1.0 | ppbv | |
| 8344129 | Methyl Ethyl Ketone (2-Butanone) | 2022/11/14 | 100 | 70 - 130 | <0.20 | ppbv | |
| 8344129 | Methyl Isobutyl Ketone | 2022/11/14 | 106 | 70 - 130 | <0.20 | ppbv | |
| 8344129 | Methyl t-butyl ether (MTBE) | 2022/11/14 | 95 | 70 - 130 | <0.20 | ppbv | |
| 8344129 | Methylene Chloride(Dichloromethane) | 2022/11/14 | 94 | 70 - 130 | <0.60 | ppbv | |
| 8344129 | Naphthalene | 2022/11/14 | 94 | 70 - 130 | <0.20 | ppbv | |
| 8344129 | o-Xylene | 2022/11/14 | 105 | 70 - 130 | <0.10 | ppbv | |
| 8344129 | p+m-Xylene | 2022/11/14 | 105 | 70 - 130 | <0.20 | ppbv | |
| 8344129 | Propene | 2022/11/14 | 98 | 70 - 130 | <0.50 | ppbv | |
| 8344129 | Styrene | 2022/11/14 | 107 | 70 - 130 | <0.10 | ppbv | |
| 8344129 | Tetrachloroethylene | 2022/11/14 | 101 | 70 - 130 | <0.10 | ppbv | |
| 8344129 | Tetrahydrofuran | 2022/11/14 | 98 | 70 - 130 | <0.40 | ppbv | |
| 8344129 | Toluene | 2022/11/14 | 104 | 70 - 130 | <0.10 | ppbv | |
| 8344129 | Total Xylenes | 2022/11/14 | 105 | 70 - 130 | <0.30 | ppbv | |
| 8344129 | trans-1,2-Dichloroethylene | 2022/11/14 | 103 | 70 - 130 | <0.10 | ppbv | |

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QUALITY ASSURANCE REPORT(CONT'D)

Golder Associates Ltd Client Project #: 22524317 Site Location: LADY ELLEN PARK Sampler Initials: PC

| | | | SPIKED | BLANK | Method F | 3lank | | | | |
|---|-----------------------------------|------------|------------|-----------|----------|-------|--|--|--|--|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | | | | |
| 8344129 | trans-1,3-Dichloropropene | 2022/11/14 | 112 | 70 - 130 | <0.10 | ppbv | | | | |
| 8344129 | Trichloroethylene | 2022/11/14 | 101 | 70 - 130 | <0.10 | ppbv | | | | |
| 8344129 | Trichlorofluoromethane (FREON 11) | 2022/11/14 | 101 | 70 - 130 | <0.20 | ppbv | | | | |
| 8344129 | Trichlorotrifluoroethane | 2022/11/14 | 98 | 70 - 130 | <0.15 | ppbv | | | | |
| 8344129 | Vinyl Acetate | 2022/11/14 | 105 | 70 - 130 | <0.20 | ppbv | | | | |
| 8344129 | Vinyl Bromide | 2022/11/14 | 108 | 70 - 130 | <0.20 | ppbv | | | | |
| 8344129 | Vinyl Chloride | 2022/11/14 | 97 | 70 - 130 | <0.10 | ppbv | | | | |
| Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy. | | | | | | | | | | |

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.



VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Hulanie Mabri

Melanie Mabini, Team Leader

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by {0}, {1} responsible for {2} {3} laboratory operations.

| 6740 Campob | lle Dd | Toll | Eroo: 1.90 | 668.0630 | | and the second | | | 5 | | | Three | | | | | | 1- |
|--|--|----------------------|-------------------------------|--------------------|---|-------------------|------------|---|-----------------------|----------|---------------------------|--------------------------------|---------------------|------------------------|------------------------------------|------------------------------------|-----------|------|
| Maxxam Mississauga | ello Rd Intario, L5N 2L | .8 Pl | none: (905) | 817-5700 | | - | Photos II | - | The second second | | | | CAM FC | D-0130 | 2/2 | 67 B | Page | of _ |
| A Bureau Veritas Broup Company www.maxxam | ca | | Fax: (905) | 817-5777 | | | (And and | - | | - | | | | ANALY | SIS RE | QUESTE | D | _ |
| INVOICE INFORMATION Impany Name: WSP Global Intact Name: Philippe Chevette Idress: 1931 Rebertson R. mail: PLANK. Chevette @wsp.cc | Company M Project Ma Address: | REPORT IN lame: | re as i | n. Invorce | CUUM (inches of Hg) | UM (inches of Hg) | UR | NDOOR AIR | COMMERCIAL/INDUSTRIAL | GAS | OF VOCs (reference TO15A) | liphatic Hydrocarbon Fractions |)) and F2 (C10-C16) | 'OC's - please specify | | | | 28 |
| is phippe clette | Ph: | | | | START VAG | END VACU | SOIL VAPO | AMBIENT/I | AMBIENT/0 | SUB-SLAB | FULL LIST | Aromatic/Al | F1 (C6-C10 | Selected V | Other | | | |
| Field Sample ID | | Canister Serial # | Flow Regulator Serial # | Collection Date | -29 | -7 | X | | | | X | | | | | | | |
| 50F-22-7 | | GW 1221 | Fx 0648 | 101.10 | -30 | -9.5 | × | 12214/1221 | | | X | | | | | | | |
| SHEZ OUPI | | SN 6822 | Fx 1289 | 17 | -29 | -63 | × | anale Anale | | | × | | | | | | | |
| jextra unused suma t | leguiater | | | | | | | | | | | | | 1 (ather | I-Nov ine Sz 1111111 X127 | v-22 0 zozda IHIII III 75 | 9:00 M | |
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| | | | | | Constant of | - Sales | | | | 3 | | | | | | | | |
| | | | | | | | a la de de | | | | | | REC | EIVE | th IV | ATTO | WA | |
| AT Requirement TD 10 Business day Ush 5 Business day Ush 2 Business day Ush 0 ther ATR Cherred by Jacke Maxxa AR Cherred by Jacke Maxxa Tank 1 | Ct #: ume: O #: n Quote #: n Contact: urder/l ine. !!em | TION REPORTI | | | EDD Regulations ON 153 ON 419 BC CSR | | | 1) please indicate on chain of custody if your samples are soil vapour or ambient air 2) please list all canisters on the chain of custody even if unused PROJECT SPECIFIC COMMENTS | | | | | | | | | | |
| Tient Signature: Mac Cleff | | Received by | . Ange | ween S. | au | ticy | 20 | 18 | F | | | | | | | | | |
| Date/Time: 10/11/22 1.48 | | Date/Time | : WOD | jujic | Condition | 15. | 155 | Chair | of Cust | PLE | ASE F | RETUR | edament = | UNUS | ED EQU | JIPMEN our terms | IT | 1 |



Your Project #: 22524317 Site Location: LADY ELLEN PLACE Your C.O.C. #: 51645

Attention: Phil Chevrette

WSP Canada Inc. 1931 Robertson Rd Ottawa, ON CANADA K2H 5B7

> Report Date: 2023/05/31 Report #: R7650648 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C3D9156 Received: 2023/05/16, 09:00

Received. 2023/03/10, 05.0

Sample Matrix: Air # Samples Received: 2

| | | Date | Date | | |
|--------------------------------------|----------|-----------|------------|-------------------|-------------------|
| Analyses | Quantity | Extracted | Analyzed | Laboratory Method | Analytical Method |
| Canister Pressure (TO-15) | 2 | N/A | 2023/05/18 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air (ug/m3) | 2 | N/A | 2023/05/23 | BRL SOP-00304 | EPA TO-15 m |
| Volatile Organics in Air (TO-15) (1) | 2 | N/A | 2023/05/18 | BRL SOP-00304 | EPA TO-15 m |

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCCFP, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days or as contractually agreed from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Page 1 of 16



Your Project #: 22524317 Site Location: LADY ELLEN PLACE Your C.O.C. #: 51645

Attention: Phil Chevrette

WSP Canada Inc. 1931 Robertson Rd Ottawa, ON CANADA K2H 5B7

> Report Date: 2023/05/31 Report #: R7650648 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C3D9156 Received: 2023/05/16, 09:00

Encryption Key

Motina Bacchus

Cristina (Maria) Bacchus Project Manager 31 May 2023 12:15:13

Please direct all questions regarding this Certificate of Analysis to: Cristina (Maria) Bacchus, Project Manager Email: maria.bacchus@bureauveritas.com Phone# (905)817-5763

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

> Total Cover Pages : 2 Page 2 of 16 Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com



RESULTS OF ANALYSES OF AIR

| Bureau Veritas ID | | VVB991 | VVB992 | | | | | | |
|----------------------------------|-------|------------|------------|----------|--|--|--|--|--|
| Sampling Date | | 2023/05/15 | 2023/05/15 | | | | | | |
| COC Number | | 51645 | 51645 | | | | | | |
| | UNITS | SVP22-2 | DUP1 | QC Batch | | | | | |
| Volatile Organics | | | | | | | | | |
| Pressure on Receipt | psig | (-3.6) | (-3.6) | 8678570 | | | | | |
| QC Batch = Quality Control Batch | | | | | | | | | |

| Bureau Veritas ID | | VVB991 | | VVB992 | | |
|-------------------------------------|-------|------------|------|------------|------|----------|
| Sampling Date | | 2023/05/15 | | 2023/05/15 | | |
| COC Number | | 51645 | | 51645 | | |
| | UNITS | SVP22-2 | RDL | DUP1 | RDL | QC Batch |
| Volatile Organics | | | | | | |
| Dichlorodifluoromethane (FREON 12) | ppbv | 1.01 | 0.20 | 1.09 | 0.20 | 8672299 |
| 1,2-Dichlorotetrafluoroethane | ppbv | <0.17 | 0.17 | <0.17 | 0.17 | 8672299 |
| Chloromethane | ppbv | <0.30 | 0.30 | <0.30 | 0.30 | 8672299 |
| Vinyl Chloride | ppbv | <0.10 | 0.10 | <0.10 | 0.10 | 8672299 |
| Chloroethane | ppbv | <0.30 | 0.30 | <0.30 | 0.30 | 8672299 |
| 1,3-Butadiene | ppbv | <0.50 | 0.50 | <0.50 | 0.50 | 8672299 |
| Trichlorofluoromethane (FREON 11) | ppbv | <0.20 | 0.20 | <0.20 | 0.20 | 8672299 |
| Ethanol (ethyl alcohol) | ppbv | <1.0 | 1.0 | 1.1 | 1.0 | 8672299 |
| Trichlorotrifluoroethane | ppbv | <0.15 | 0.15 | <0.15 | 0.15 | 8672299 |
| 2-propanol | ppbv | <1.0 | 1.0 | <1.0 | 1.0 | 8672299 |
| 2-Propanone | ppbv | 1.28 | 0.60 | 1.75 | 0.60 | 8672299 |
| Methyl Ethyl Ketone (2-Butanone) | ppbv | <0.40 | 0.40 | <0.80 | 0.80 | 8672299 |
| Methyl Isobutyl Ketone | ppbv | <0.20 | 0.20 | <0.20 | 0.20 | 8672299 |
| Methyl Butyl Ketone (2-Hexanone) | ppbv | <1.0 | 1.0 | <1.0 | 1.0 | 8672299 |
| Methyl t-butyl ether (MTBE) | ppbv | <0.20 | 0.20 | <0.20 | 0.20 | 8672299 |
| Ethyl Acetate | ppbv | <1.0 | 1.0 | <1.0 | 1.0 | 8672299 |
| 1,1-Dichloroethylene | ppbv | <0.10 | 0.10 | <0.10 | 0.10 | 8672299 |
| cis-1,2-Dichloroethylene | ppbv | <0.10 | 0.10 | <0.10 | 0.10 | 8672299 |
| trans-1,2-Dichloroethylene | ppbv | <0.10 | 0.10 | <0.10 | 0.10 | 8672299 |
| Methylene Chloride(Dichloromethane) | ppbv | <0.60 | 0.60 | <0.60 | 0.60 | 8672299 |
| Chloroform | ppbv | <0.10 | 0.10 | <0.10 | 0.10 | 8672299 |
| Carbon Tetrachloride | ppbv | <0.10 | 0.10 | <0.10 | 0.10 | 8672299 |
| 1,1-Dichloroethane | ppbv | <0.10 | 0.10 | <0.10 | 0.10 | 8672299 |
| 1,2-Dichloroethane | ppbv | <0.10 | 0.10 | <0.10 | 0.10 | 8672299 |
| Ethylene Dibromide | ppbv | <0.10 | 0.10 | <0.10 | 0.10 | 8672299 |
| 1,1,1-Trichloroethane | ppbv | 0.91 | 0.10 | 0.95 | 0.10 | 8672299 |
| 1,1,2-Trichloroethane | ppbv | <0.10 | 0.10 | <0.10 | 0.10 | 8672299 |
| 1,1,2,2-Tetrachloroethane | ppbv | <0.10 | 0.10 | <0.10 | 0.10 | 8672299 |
| cis-1,3-Dichloropropene | ppbv | <0.10 | 0.10 | <0.10 | 0.10 | 8672299 |
| trans-1,3-Dichloropropene | ppbv | <0.10 | 0.10 | <0.10 | 0.10 | 8672299 |
| 1,2-Dichloropropane | ppbv | <0.10 | 0.10 | <0.10 | 0.10 | 8672299 |
| Bromomethane | ppbv | <0.10 | 0.10 | <0.10 | 0.10 | 8672299 |
| RDL = Reportable Detection Limit | | | | | | |
| QC Batch = Quality Control Batch | | | | | | |



| Bureau Veritas ID | | VVB991 | | VVB992 | | |
|--|-------|------------|------|------------|------|----------|
| Sampling Date | | 2023/05/15 | | 2023/05/15 | | |
| COC Number | | 51645 | | 51645 | | |
| | UNITS | SVP22-2 | RDL | DUP1 | RDL | QC Batch |
| Bromoform | ppbv | <0.20 | 0.20 | <0.20 | 0.20 | 8672299 |
| Bromodichloromethane | ppbv | <0.20 | 0.20 | <0.20 | 0.20 | 8672299 |
| Dibromochloromethane | ppbv | <0.20 | 0.20 | <0.20 | 0.20 | 8672299 |
| Trichloroethylene | ppbv | <0.10 | 0.10 | <0.10 | 0.10 | 8672299 |
| Tetrachloroethylene | ppbv | <0.10 | 0.10 | <0.10 | 0.10 | 8672299 |
| Benzene | ppbv | <0.10 | 0.10 | 0.11 | 0.10 | 8672299 |
| Toluene | ppbv | <0.10 | 0.10 | 0.12 | 0.10 | 8672299 |
| Ethylbenzene | ppbv | <0.10 | 0.10 | <0.10 | 0.10 | 8672299 |
| p+m-Xylene | ppbv | <0.20 | 0.20 | <0.20 | 0.20 | 8672299 |
| o-Xylene | ppbv | <0.10 | 0.10 | <0.10 | 0.10 | 8672299 |
| Styrene | ppbv | <0.10 | 0.10 | <0.10 | 0.10 | 8672299 |
| 4-ethyltoluene | ppbv | <0.50 | 0.50 | <0.50 | 0.50 | 8672299 |
| 1,3,5-Trimethylbenzene | ppbv | <0.50 | 0.50 | <0.50 | 0.50 | 8672299 |
| 1,2,4-Trimethylbenzene | ppbv | <0.50 | 0.50 | <0.50 | 0.50 | 8672299 |
| Chlorobenzene | ppbv | <0.10 | 0.10 | <0.10 | 0.10 | 8672299 |
| Benzyl chloride | ppbv | <0.50 | 0.50 | <0.50 | 0.50 | 8672299 |
| 1,3-Dichlorobenzene | ppbv | <0.40 | 0.40 | <0.40 | 0.40 | 8672299 |
| 1,4-Dichlorobenzene | ppbv | <0.10 | 0.10 | <0.10 | 0.10 | 8672299 |
| 1,2-Dichlorobenzene | ppbv | <0.10 | 0.10 | <0.10 | 0.10 | 8672299 |
| 1,2,4-Trichlorobenzene | ppbv | <0.50 | 0.50 | <0.50 | 0.50 | 8672299 |
| Hexachlorobutadiene | ppbv | <0.50 | 0.50 | <0.50 | 0.50 | 8672299 |
| Hexane | ppbv | <0.20 | 0.20 | <0.20 | 0.20 | 8672299 |
| Heptane | ppbv | <0.30 | 0.30 | <0.30 | 0.30 | 8672299 |
| Cyclohexane | ppbv | <0.20 | 0.20 | <0.20 | 0.20 | 8672299 |
| Tetrahydrofuran | ppbv | <0.40 | 0.40 | <0.40 | 0.40 | 8672299 |
| 1,4-Dioxane | ppbv | <1.0 | 1.0 | <1.0 | 1.0 | 8672299 |
| Naphthalene | ppbv | <0.20 | 0.20 | <0.20 | 0.20 | 8672299 |
| Total Xylenes | ppbv | <0.30 | 0.30 | <0.30 | 0.30 | 8672299 |
| 1,1,1,2-Tetrachloroethane | ppbv | <0.10 | 0.10 | <0.10 | 0.10 | 8672299 |
| Vinyl Bromide | ppbv | <0.20 | 0.20 | <0.20 | 0.20 | 8672299 |
| Propene | ppbv | <1.0 | 1.0 | <1.0 | 1.0 | 8672299 |
| 2,2,4-Trimethylpentane | ppbv | <0.20 | 0.20 | <0.20 | 0.20 | 8672299 |
| Carbon Disulfide | ppbv | <0.50 | 0.50 | <0.50 | 0.50 | 8672299 |
| RDL = Reportable Detection Limit QC Batch = Quality Control Batch | | | | | | |



VOLATILE ORGANICS BY GC/MS (AIR)

| Bureau Veritas ID | | VVB991 | | VVB992 | | |
|----------------------------------|-------|------------|------|------------|------|----------|
| Sampling Date | | 2023/05/15 | | 2023/05/15 | | |
| COC Number | | 51645 | | 51645 | | |
| | UNITS | SVP22-2 | RDL | DUP1 | RDL | QC Batch |
| Vinyl Acetate | ppbv | <0.20 | 0.20 | <0.20 | 0.20 | 8672299 |
| Surrogate Recovery (%) | | | | | | |
| Bromochloromethane | % | 89 | | 87 | | 8672299 |
| D5-Chlorobenzene | % | 75 | | 75 | | 8672299 |
| Difluorobenzene | % | 83 | | 79 | | 8672299 |
| RDL = Reportable Detection Limit | | | | | | |
| QC Batch = Quality Control Batch | | | | | | |

CALCULATED VOLATILE ORGANICS (AIR)

| Bureau Veritas ID | | VVB991 | | VVB992 | | |
|-------------------------------------|-------|------------|------|------------|------|----------|
| Sampling Date | | 2023/05/15 | | 2023/05/15 | | |
| COC Number | | 51645 | | 51645 | | |
| | UNITS | SVP22-2 | RDL | DUP1 | RDL | QC Batch |
| Calculated Parameters | · | | | | | |
| Dichlorodifluoromethane (FREON 12) | ug/m3 | 5.00 | 0.99 | 5.41 | 0.99 | 8667772 |
| 1,2-Dichlorotetrafluoroethane | ug/m3 | <1.2 | 1.2 | <1.2 | 1.2 | 8667772 |
| Chloromethane | ug/m3 | <0.62 | 0.62 | <0.62 | 0.62 | 8667772 |
| Vinyl Chloride | ug/m3 | <0.26 | 0.26 | <0.26 | 0.26 | 8667772 |
| Chloroethane | ug/m3 | <0.79 | 0.79 | <0.79 | 0.79 | 8667772 |
| 1,3-Butadiene | ug/m3 | <1.1 | 1.1 | <1.1 | 1.1 | 8667772 |
| Trichlorofluoromethane (FREON 11) | ug/m3 | <1.1 | 1.1 | <1.1 | 1.1 | 8667772 |
| Ethanol (ethyl alcohol) | ug/m3 | <1.9 | 1.9 | 2.1 | 1.9 | 8667772 |
| Trichlorotrifluoroethane | ug/m3 | <1.2 | 1.2 | <1.2 | 1.2 | 8667772 |
| 2-propanol | ug/m3 | <2.5 | 2.5 | <2.5 | 2.5 | 8667772 |
| 2-Propanone | ug/m3 | 3.0 | 1.4 | 4.2 | 1.4 | 8667772 |
| Methyl Ethyl Ketone (2-Butanone) | ug/m3 | <1.2 | 1.2 | <2.4 | 2.4 | 8667772 |
| Methyl Isobutyl Ketone | ug/m3 | <0.82 | 0.82 | <0.82 | 0.82 | 8667772 |
| Methyl Butyl Ketone (2-Hexanone) | ug/m3 | <4.1 | 4.1 | <4.1 | 4.1 | 8667772 |
| Methyl t-butyl ether (MTBE) | ug/m3 | <0.72 | 0.72 | <0.72 | 0.72 | 8667772 |
| Ethyl Acetate | ug/m3 | <3.6 | 3.6 | <3.6 | 3.6 | 8667772 |
| 1,1-Dichloroethylene | ug/m3 | <0.40 | 0.40 | <0.40 | 0.40 | 8667772 |
| cis-1,2-Dichloroethylene | ug/m3 | <0.40 | 0.40 | <0.40 | 0.40 | 8667772 |
| trans-1,2-Dichloroethylene | ug/m3 | <0.40 | 0.40 | <0.40 | 0.40 | 8667772 |
| Methylene Chloride(Dichloromethane) | ug/m3 | <2.1 | 2.1 | <2.1 | 2.1 | 8667772 |
| Chloroform | ug/m3 | <0.49 | 0.49 | <0.49 | 0.49 | 8667772 |
| Carbon Tetrachloride | ug/m3 | <0.63 | 0.63 | <0.63 | 0.63 | 8667772 |
| 1,1-Dichloroethane | ug/m3 | <0.40 | 0.40 | <0.40 | 0.40 | 8667772 |
| 1,2-Dichloroethane | ug/m3 | <0.40 | 0.40 | <0.40 | 0.40 | 8667772 |
| Ethylene Dibromide | ug/m3 | <0.77 | 0.77 | <0.77 | 0.77 | 8667772 |
| 1,1,1-Trichloroethane | ug/m3 | 4.96 | 0.55 | 5.17 | 0.55 | 8667772 |
| 1,1,2-Trichloroethane | ug/m3 | <0.55 | 0.55 | <0.55 | 0.55 | 8667772 |
| 1,1,2,2-Tetrachloroethane | ug/m3 | <0.69 | 0.69 | <0.69 | 0.69 | 8667772 |
| cis-1,3-Dichloropropene | ug/m3 | <0.45 | 0.45 | <0.45 | 0.45 | 8667772 |
| trans-1,3-Dichloropropene | ug/m3 | <0.45 | 0.45 | <0.45 | 0.45 | 8667772 |
| 1,2-Dichloropropane | ug/m3 | <0.46 | 0.46 | <0.46 | 0.46 | 8667772 |
| Bromomethane | ug/m3 | <0.39 | 0.39 | <0.39 | 0.39 | 8667772 |
| RDL = Reportable Detection Limit | | | _ | | _ | |
| QC Batch = Quality Control Batch | | | | | | |



CALCULATED VOLATILE ORGANICS (AIR)

| Bureau Veritas ID | | VVB991 | | VVB992 | | |
|--|-------|------------|------|------------|------|----------|
| Sampling Date | | 2023/05/15 | | 2023/05/15 | | |
| COC Number | | 51645 | | 51645 | | |
| | UNITS | SVP22-2 | RDL | DUP1 | RDL | QC Batch |
| Bromoform | ug/m3 | <2.1 | 2.1 | <2.1 | 2.1 | 8667772 |
| Bromodichloromethane | ug/m3 | <1.3 | 1.3 | <1.3 | 1.3 | 8667772 |
| Dibromochloromethane | ug/m3 | <1.7 | 1.7 | <1.7 | 1.7 | 8667772 |
| Trichloroethylene | ug/m3 | <0.54 | 0.54 | <0.54 | 0.54 | 8667772 |
| Tetrachloroethylene | ug/m3 | <0.68 | 0.68 | <0.68 | 0.68 | 8667772 |
| Benzene | ug/m3 | <0.32 | 0.32 | 0.34 | 0.32 | 8667772 |
| Toluene | ug/m3 | <0.38 | 0.38 | 0.45 | 0.38 | 8667772 |
| Ethylbenzene | ug/m3 | <0.43 | 0.43 | <0.43 | 0.43 | 8667772 |
| p+m-Xylene | ug/m3 | <0.87 | 0.87 | <0.87 | 0.87 | 8667772 |
| o-Xylene | ug/m3 | <0.43 | 0.43 | <0.43 | 0.43 | 8667772 |
| Styrene | ug/m3 | <0.43 | 0.43 | <0.43 | 0.43 | 8667772 |
| 4-ethyltoluene | ug/m3 | <2.5 | 2.5 | <2.5 | 2.5 | 8667772 |
| 1,3,5-Trimethylbenzene | ug/m3 | <2.5 | 2.5 | <2.5 | 2.5 | 8667772 |
| 1,2,4-Trimethylbenzene | ug/m3 | <2.5 | 2.5 | <2.5 | 2.5 | 8667772 |
| Chlorobenzene | ug/m3 | <0.46 | 0.46 | <0.46 | 0.46 | 8667772 |
| Benzyl chloride | ug/m3 | <2.6 | 2.6 | <2.6 | 2.6 | 8667772 |
| 1,3-Dichlorobenzene | ug/m3 | <2.4 | 2.4 | <2.4 | 2.4 | 8667772 |
| 1,4-Dichlorobenzene | ug/m3 | <0.60 | 0.60 | <0.60 | 0.60 | 8667772 |
| 1,2-Dichlorobenzene | ug/m3 | <0.60 | 0.60 | <0.60 | 0.60 | 8667772 |
| 1,2,4-Trichlorobenzene | ug/m3 | <3.7 | 3.7 | <3.7 | 3.7 | 8667772 |
| Hexachlorobutadiene | ug/m3 | <5.3 | 5.3 | <5.3 | 5.3 | 8667772 |
| Hexane | ug/m3 | <0.70 | 0.70 | <0.70 | 0.70 | 8667772 |
| Heptane | ug/m3 | <1.2 | 1.2 | <1.2 | 1.2 | 8667772 |
| Cyclohexane | ug/m3 | <0.69 | 0.69 | <0.69 | 0.69 | 8667772 |
| Tetrahydrofuran | ug/m3 | <1.2 | 1.2 | <1.2 | 1.2 | 8667772 |
| 1,4-Dioxane | ug/m3 | <3.6 | 3.6 | <3.6 | 3.6 | 8667772 |
| Naphthalene | ug/m3 | <1.0 | 1.0 | <1.0 | 1.0 | 8667772 |
| Total Xylenes | ug/m3 | <1.3 | 1.3 | <1.3 | 1.3 | 8667772 |
| 1,1,1,2-Tetrachloroethane | ug/m3 | <0.69 | 0.69 | <0.69 | 0.69 | 8667772 |
| Vinyl Bromide | ug/m3 | <0.87 | 0.87 | <0.87 | 0.87 | 8667772 |
| Propene | ug/m3 | <1.7 | 1.7 | <1.7 | 1.7 | 8667772 |
| 2,2,4-Trimethylpentane | ug/m3 | <0.93 | 0.93 | <0.93 | 0.93 | 8667772 |
| Carbon Disulfide | ug/m3 | <1.6 | 1.6 | <1.6 | 1.6 | 8667772 |
| RDL = Reportable Detection Limit QC Batch = Quality Control Batch | _ | | | | _ | |



CALCULATED VOLATILE ORGANICS (AIR)

| Bureau Veritas ID | | VVB991 | | VVB992 | | |
|----------------------------------|-------|------------|------|------------|------|----------|
| Sampling Date | | 2023/05/15 | | 2023/05/15 | | |
| COC Number | | 51645 | | 51645 | | |
| | UNITS | SVP22-2 | RDL | DUP1 | RDL | QC Batch |
| Vinyl Acetate | ug/m3 | <0.70 | 0.70 | <0.70 | 0.70 | 8667772 |
| RDL = Reportable Detection Limit | | | | | | |
| QC Batch = Quality Control Batch | | | | | | |



TEST SUMMARY

| Sample ID: SVP22-2 Matrix: Air | | | | | Shipped: Received: 2023/05/16 |
|-----------------------------------|-----------------|---------|-----------|---------------|----------------------------------|
| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
| Canister Pressure (TO-15) | PRES | 8678570 | N/A | 2023/05/18 | Narinderjeet Kaur |
| Volatile Organics in Air (ug/m3) | GC/MS | 8667772 | N/A | 2023/05/23 | Automated Statchk |
| Volatile Organics in Air (TO-15) | GC/MS | 8672299 | N/A | 2023/05/18 | Narinderjeet Kaur |
| Bureau Veritas ID: VVB992 | | | | | Collected: 2023/05/15 |

Sample ID: DUP1 Matrix: Air

Bureau Veritas ID: VVB991

| Collected: | 2023/05/15 |
|------------|------------|
| Shipped: | |
| Received: | 2023/05/16 |

Collected: 2023/05/15

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|----------------------------------|-----------------|---------|-----------|---------------|-------------------|
| Canister Pressure (TO-15) | PRES | 8678570 | N/A | 2023/05/18 | Narinderjeet Kaur |
| Volatile Organics in Air (ug/m3) | GC/MS | 8667772 | N/A | 2023/05/23 | Automated Statchk |
| Volatile Organics in Air (TO-15) | GC/MS | 8672299 | N/A | 2023/05/18 | Narinderjeet Kaur |



GENERAL COMMENTS

Sample VVB991 [SVP22-2] : Increased DL for propene due to interference from propane. Increased DL for 2-Butanone due to interference.

Sample VVB992 [DUP1] : Increased DL for propene due to interference from propane. Increased DL for 2-Butanone due to interference.

Results relate only to the items tested.



QUALITY ASSURANCE REPORT

WSP Canada Inc. Client Project #: 22524317 Site Location: LADY ELLEN PLACE Sampler Initials: PC

| QC BatchParameter8672299Bromochloromethane28672299D5-Chlorobenzene28672299Difluorobenzene286677721,2-Dichloroethane28667772Benzene28667772Ethylbenzene28667772Naphthalene28667772o-Xylene28667772p+m-Xylene28667772Toluene28667772Total Xylenes2 | | SPIKED | BLANK | Method | Blank | RP | D | |
|--|-------------------------------|------------|------------|-----------|-------|-------|-----------|-----------|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 8672299 | Bromochloromethane | 2023/05/18 | 101 | 60 - 140 | 96 | % | | |
| 8672299 | D5-Chlorobenzene | 2023/05/18 | 98 | 60 - 140 | 90 | % | | |
| 8672299 | Difluorobenzene | 2023/05/18 | 97 | 60 - 140 | 94 | % | | |
| 8667772 | 1,2-Dichloroethane | 2023/05/26 | | | | | NC | 25 |
| 8667772 | Benzene | 2023/05/26 | | | | | 0.84 | 25 |
| 8667772 | Ethylbenzene | 2023/05/26 | | | | | 0.24 | 25 |
| 8667772 | Naphthalene | 2023/05/30 | | | | | NC | 25 |
| 8667772 | o-Xylene | 2023/05/26 | | | | | 4.9 | 25 |
| 8667772 | p+m-Xylene | 2023/05/26 | | | | | 4.5 | 25 |
| 8667772 | Toluene | 2023/05/26 | | | | | 1.0 | 25 |
| 8667772 | Total Xylenes | 2023/05/26 | | | | | 4.7 | 25 |
| 8672299 | 1,1,1,2-Tetrachloroethane | 2023/05/18 | 107 | 70 - 130 | <0.10 | ppbv | | |
| 8672299 | 1,1,1-Trichloroethane | 2023/05/18 | 108 | 70 - 130 | <0.10 | ppbv | | |
| 8672299 | 1,1,2,2-Tetrachloroethane | 2023/05/18 | 111 | 70 - 130 | <0.10 | ppbv | | |
| 8672299 | 1,1,2-Trichloroethane | 2023/05/18 | 119 | 70 - 130 | <0.10 | ppbv | | |
| 8672299 | 1,1-Dichloroethane | 2023/05/18 | 109 | 70 - 130 | <0.10 | ppbv | | |
| 8672299 | 1,1-Dichloroethylene | 2023/05/18 | 107 | 70 - 130 | <0.10 | ppbv | | |
| 8672299 | 1,2,4-Trichlorobenzene | 2023/05/18 | 102 | 70 - 130 | <0.50 | ppbv | | |
| 8672299 | 1,2,4-Trimethylbenzene | 2023/05/18 | 109 | 70 - 130 | <0.50 | ppbv | | |
| 8672299 | 1,2-Dichlorobenzene | 2023/05/18 | 108 | 70 - 130 | <0.10 | ppbv | | |
| 8672299 | 1,2-Dichloroethane | 2023/05/18 | 111 | 70 - 130 | <0.10 | ppbv | | |
| 8672299 | 1,2-Dichloropropane | 2023/05/18 | 117 | 70 - 130 | <0.10 | ppbv | | |
| 8672299 | 1,2-Dichlorotetrafluoroethane | 2023/05/18 | 119 | 70 - 130 | <0.17 | ppbv | | |
| 8672299 | 1,3,5-Trimethylbenzene | 2023/05/18 | 107 | 70 - 130 | <0.50 | ppbv | | |
| 8672299 | 1,3-Butadiene | 2023/05/18 | 119 | 70 - 130 | <0.50 | ppbv | | |
| 8672299 | 1,3-Dichlorobenzene | 2023/05/18 | 110 | 70 - 130 | <0.40 | ppbv | | |
| 8672299 | 1,4-Dichlorobenzene | 2023/05/18 | 110 | 70 - 130 | <0.10 | ppbv | | |
| 8672299 | 1,4-Dioxane | 2023/05/18 | 117 | 70 - 130 | <1.0 | ppbv | | |
| 8672299 | 2,2,4-Trimethylpentane | 2023/05/18 | 123 | 70 - 130 | <0.20 | ppbv | | |
| 8672299 | 2-propanol | 2023/05/18 | 102 | 70 - 130 | <1.0 | ppbv | | |
| 8672299 | 2-Propanone | 2023/05/18 | 101 | 70 - 130 | <0.60 | ppbv | | |

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QUALITY ASSURANCE REPORT(CONT'D)

WSP Canada Inc. Client Project #: 22524317 Site Location: LADY ELLEN PLACE Sampler Initials: PC

| | | | SPIKED | BLANK | Method I | Blank | RPI | D | |
|----------|-------------------------------------|------------|------------|-----------|----------|-------|-----------|-----------|--|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits | |
| 8672299 | 4-ethyltoluene | 2023/05/18 | 114 | 70 - 130 | <0.50 | ppbv | | | |
| 8672299 | Benzene | 2023/05/18 | 114 | 70 - 130 | <0.10 | ppbv | 2.9 | 25 | |
| 8672299 | Benzyl chloride | 2023/05/18 | 114 | 70 - 130 | <0.50 | ppbv | | | |
| 8672299 | Bromodichloromethane | 2023/05/18 | 112 | 70 - 130 | <0.20 | ppbv | | | |
| 8672299 | Bromoform | 2023/05/18 | 117 | 70 - 130 | <0.20 | ppbv | | | |
| 8672299 | Bromomethane | 2023/05/18 | 114 | 70 - 130 | <0.10 | ppbv | | | |
| 8672299 | Carbon Disulfide | 2023/05/18 | 112 | 70 - 130 | <0.50 | ppbv | | | |
| 8672299 | Carbon Tetrachloride | 2023/05/18 | 111 | 70 - 130 | <0.10 | ppbv | | | |
| 8672299 | Chlorobenzene | 2023/05/18 | 109 | 70 - 130 | <0.10 | ppbv | | | |
| 8672299 | Chloroethane | 2023/05/18 | 115 | 70 - 130 | <0.30 | ppbv | | | |
| 8672299 | Chloroform | 2023/05/18 | 111 | 70 - 130 | <0.10 | ppbv | | | |
| 8672299 | Chloromethane | 2023/05/18 | 120 | 70 - 130 | <0.30 | ppbv | | | |
| 8672299 | cis-1,2-Dichloroethylene | 2023/05/18 | 109 | 70 - 130 | <0.10 | ppbv | | | |
| 8672299 | cis-1,3-Dichloropropene | 2023/05/18 | 113 | 70 - 130 | <0.10 | ppbv | | | |
| 8672299 | Cyclohexane | 2023/05/18 | 111 | 70 - 130 | <0.20 | ppbv | | | |
| 8672299 | Dibromochloromethane | 2023/05/18 | 120 | 70 - 130 | <0.20 | ppbv | | | |
| 8672299 | Dichlorodifluoromethane (FREON 12) | 2023/05/18 | 108 | 70 - 130 | <0.20 | ppbv | | | |
| 8672299 | Ethanol (ethyl alcohol) | 2023/05/18 | 96 | 70 - 130 | <1.0 | ppbv | | | |
| 8672299 | Ethyl Acetate | 2023/05/18 | 120 | 70 - 130 | <1.0 | ppbv | | | |
| 8672299 | Ethylbenzene | 2023/05/18 | 113 | 70 - 130 | <0.10 | ppbv | NC | 25 | |
| 8672299 | Ethylene Dibromide | 2023/05/18 | 119 | 70 - 130 | <0.10 | ppbv | | | |
| 8672299 | Heptane | 2023/05/18 | 124 | 70 - 130 | <0.30 | ppbv | | | |
| 8672299 | Hexachlorobutadiene | 2023/05/18 | 100 | 70 - 130 | <0.50 | ppbv | | | |
| 8672299 | Hexane | 2023/05/18 | 83 | 70 - 130 | <0.20 | ppbv | | | |
| 8672299 | Methyl Butyl Ketone (2-Hexanone) | 2023/05/18 | 118 | 70 - 130 | <1.0 | ppbv | | | |
| 8672299 | Methyl Ethyl Ketone (2-Butanone) | 2023/05/18 | 123 | 70 - 130 | <0.20 | ppbv | | | |
| 8672299 | Methyl Isobutyl Ketone | 2023/05/18 | 118 | 70 - 130 | <0.20 | ppbv | | | |
| 8672299 | Methyl t-butyl ether (MTBE) | 2023/05/18 | 95 | 70 - 130 | <0.20 | ppbv | | | |
| 8672299 | Methylene Chloride(Dichloromethane) | 2023/05/18 | 116 | 70 - 130 | <0.60 | ppbv | | | |
| 8672299 | Naphthalene | 2023/05/18 | 105 | 70 - 130 | <0.20 | ppbv | NC | 25 | |
| 8672299 | o-Xylene | 2023/05/18 | 109 | 70 - 130 | <0.10 | ppbv | 0.77 | 25 | |

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QUALITY ASSURANCE REPORT(CONT'D)

WSP Canada Inc. Client Project #: 22524317 Site Location: LADY ELLEN PLACE Sampler Initials: PC

| | | | SPIKED | BLANK | Method B | lank | RPI |) |
|----------|-----------------------------------|------------|------------|-----------|----------|-------|-----------|-----------|
| QC Batch | Parameter | Date | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 8672299 | p+m-Xylene | 2023/05/18 | 111 | 70 - 130 | <0.20 | ppbv | 0.51 | 25 |
| 8672299 | Propene | 2023/05/18 | 106 | 70 - 130 | <0.50 | ppbv | | |
| 8672299 | Styrene | 2023/05/18 | 111 | 70 - 130 | <0.10 | ppbv | | |
| 8672299 | Tetrachloroethylene | 2023/05/18 | 118 | 70 - 130 | <0.10 | ppbv | | |
| 8672299 | Tetrahydrofuran | 2023/05/18 | 116 | 70 - 130 | <0.40 | ppbv | | |
| 8672299 | Toluene | 2023/05/18 | 116 | 70 - 130 | <0.10 | ppbv | 4.4 | 25 |
| 8672299 | Total Xylenes | 2023/05/18 | 110 | 70 - 130 | <0.30 | ppbv | 0.60 | 25 |
| 8672299 | trans-1,2-Dichloroethylene | 2023/05/18 | 109 | 70 - 130 | <0.10 | ppbv | | |
| 8672299 | trans-1,3-Dichloropropene | 2023/05/18 | 122 | 70 - 130 | <0.10 | ppbv | | |
| 8672299 | Trichloroethylene | 2023/05/18 | 117 | 70 - 130 | <0.10 | ppbv | | |
| 8672299 | Trichlorofluoromethane (FREON 11) | 2023/05/18 | 110 | 70 - 130 | <0.20 | ppbv | | |
| 8672299 | Trichlorotrifluoroethane | 2023/05/18 | 110 | 70 - 130 | <0.15 | ppbv | | |
| 8672299 | Vinyl Acetate | 2023/05/18 | 114 | 70 - 130 | <0.20 | ppbv | | |
| 8672299 | Vinyl Bromide | 2023/05/18 | 99 | 70 - 130 | <0.20 | ppbv | | |
| 8672299 | Vinyl Chloride | 2023/05/18 | 119 | 70 - 130 | <0.10 | ppbv | | |

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Anke Macfarlane, Laboratory Manager, VOC

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by {0}, {1} responsible for {2} {3} laboratory operations.

| BURARU Mississauga Ontario, L5N 2L8 | Phone | : (905) 817- | 5700 | | | Re | CEIV | red i | in c | | | | | | | Page | 3 | | |
|---|-----------------|--------------------------------|----------|------------|---------|----------|--------|------------|----------|---------|--------------|--------------------|-----------|----------|--------------|-------------|-------|--|--|
| www.bvlabs.com | Fax | c (905) 817- | 5777 | | | 1 | 1 | 1 | | 1 | | | | ANAL | SIS REQ | JESTED | | | |
| | | REPORT IN | FORMATIC | DN | 3 | | | | | | (A) | | | | | | | | |
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| Contact Name: Philippe chevette | Project Mai | | | f Hg) | fg) | | | DUSTRI | | rence T | drocarb | (C10-C | pecify | | | | | | |
| Address: 1931 Robertson Rd. | Address: | | | | aches o | les of h | | AIR | CIAL/INE | | | | s (refe | natic Hy | and F2 | lease s | | | |
| E-mail: Philippe, chevette CUSP. | E-mail: | | | | UUM (ii | JM (inci | JR | IDOOR | OMMER | GAS | DF VOC | tic/Aliph | 6-C10) | DC's - p | | | | | |
| Ph: 613-297-9555 | Ph: | | | | VAC | ACUL | APOI | NT/IB | NT/C | AB | IST (| roma | -1 (C | DV be | | | | | |
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| Rush 5 Business day * Nar | # | ten pig | a | | Regula | alions | ON 4 | 419 | | 2) pr | ease iis | t all carli | sters or | r the ch | ant or cust | Juy even in | unus. | | |
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| Bureau | eritas Contact: | Latie | | | Other | | | | | | 20- | 1 | | | | | | | |
| * need approval from Bureau Veritas Task Or | der/Line Item | A. | | | | | - | | | 0 | he | X, | misq | | | | | | |
| here alte | | Received by | How | Ence to | BON | itu | REAK | CE | | | no | + 1 | ISCN | | | | | | |