

7/22/2020 Mr. Jim Tomalia Arcadis U.S., Inc. 28550 Cabot Dr. Suite 500 Novi MI 48377

Project Name: Ford LTP Project #: Workorder #: 2007405

Dear Mr. Jim Tomalia

The following report includes the data for the above referenced project for sample(s) received on 7/16/2020 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Scott

Ausha Scott Project Manager

180 Blue Ravine Road, Suite B Folsom, CA 95630



WORK ORDER #: 2007405

Work Order Summary

| CLIENT: | Mr. Jim Tomalia Arcadis U.S., Inc. 28550 Cabot Dr. Suite 500 Novi, MI 48377 | BILL TO: | Accounts Payable Arcadis U.S., Inc. 630 Plaza Drive Suite 600 Highlands Ranch, CO 80129 |
|-----------------------------------|---|---------------|---|
| PHONE: | 517-819-0356 | P.O. # | 30050315.0301.01 |
| FAX: | | PROJECT # | Ford LTP |
| DATE RECEIVED: DATE COMPLETED: | 07/16/2020 07/22/2020 | CONTACT: | Ausha Scott |

| | | | KEUEIF I | FINAL |
|------------|-----------------------------|----------------|-----------------|-----------------|
| FRACTION # | NAME | <u>TEST</u> | VAC./PRES. | PRESSURE |
| 01A | AA-11895BELDENCT-03_070920 | Modified TO-15 | 9.0 "Hg | 5 psi |
| 02A | IAF-11895BELDENCT-01_070920 | Modified TO-15 | 7.5 "Hg | 5 psi |
| 03A | IAF-11895BELDENCT-02_070920 | Modified TO-15 | 8.0 "Hg | 5.6 psi |
| 04A | Lab Blank | Modified TO-15 | NA | NA |
| 05A | CCV | Modified TO-15 | NA | NA |
| 06A | LCS | Modified TO-15 | NA | NA |
| 06AA | LCSD | Modified TO-15 | NA | NA |
| | | | | |

CERTIFIED BY:

layes end

DATE: 07/22/20

DECEIDT

FINAT

Technical Director

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209218, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-18-13, UT NELAP – CA009332019-11, VA NELAP - 460197, WA NELAP - C935 Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) Accreditation number: CA300005-011, Effective date: 10/18/2019, Expiration date: 10/17/2020. Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, LLC.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000 . (800) 985-5955 . FAX (916) 351-8279

LABORATORY NARRATIVE Modified TO-15 Arcadis U.S., Inc. Workorder# 2007405

Three 6 Liter Summa Canister (100% Cert Ambient) samples were received on July 16, 2020. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the EATL modifications.

| Requirement | TO-15 | ATL Modifications |
|---------------------|--|--|
| Initial Calibration | =30% RSD with 2<br compounds allowed out to < 40% RSD | =30% RSD with 4 compounds allowed out to < 40% RSD</td |
| Blank and standards | Zero Air | UHP Nitrogen provides a higher purity gas matrix than zero air |

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per client project requirements, the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

- J Estimated value.
- E Exceeds instrument calibration range.
- S Saturated peak.
- Q Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| Client ID: Lab ID: Date/Time Collected: Media: | AA-11895BELDENCT-03_070920 2007405-01A 7/9/20 05:05 PM 6 Liter Summa Canister (100% Cert Ambie | Date/Time A Dilution Fact Instrument/F | tor: | 7/20/20 08:56 PM 1.91 msd22.i / 22072018 | |
|---|---|--|----------------|--|-------------------|
| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit) (ug/m3) | Amount (ug/m3) |
| 1,1-Dichloroethene | 75-35-4 | 0.23 | 0.30 | 0.76 | Not Detected |
| 1,4-Dioxane | 123-91-1 | 0.13 | 0.28 | 0.69 | Not Detected |
| cis-1,2-Dichloroethen | e 156-59-2 | 0.078 | 0.30 | 0.76 | Not Detected |
| Tetrachloroethene | 127-18-4 | 0.30 | 0.52 | 1.3 | Not Detected |
| trans-1,2-Dichloroethe | ene 156-60-5 | 0.12 | 0.30 | 0.76 | Not Detected |
| Trichloroethene | 79-01-6 | 0.10 | 0.41 | 1.0 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.068 | 0.20 | 0.49 | Not Detected |
| D: Analyte not within | the DoD scope of accreditation. | | | | |
| Surrogates | CAS# | | | Limits | %Recovery |
| 1,2-Dichloroethane-d4 | 4 17060-07-0 | | | 70-130 | 114 |
| 4-Bromofluorobenzen | e 460-00-4 | | | 70-130 | 102 |
| Toluene-d8 | 2037-26-5 | | | 70-130 | 96 |

Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| Client ID: Lab ID: Date/Time Collected: Media: | IAF-11895BELDENCT-01_070920 2007405-02A 7/9/20 05:07 PM 6 Liter Summa Canister (100% Cert Ambier | Date/Time An Dilution Fact Instrument/F | or: | 7/20/20 09:32 PM 1.79 msd22.i / 22072019 | |
|---|---|---|----------------|--|-------------------|
| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
| 1,1-Dichloroethene | 75-35-4 | 0.22 | 0.28 | 0.71 | Not Detected |
| 1,4-Dioxane | 123-91-1 | 0.12 | 0.26 | 0.64 | 0.19 J |
| cis-1,2-Dichloroethen | e 156-59-2 | 0.073 | 0.28 | 0.71 | Not Detected |
| Tetrachloroethene | 127-18-4 | 0.28 | 0.48 | 1.2 | Not Detected |
| trans-1,2-Dichloroethe | ene 156-60-5 | 0.12 | 0.28 | 0.71 | Not Detected |
| Trichloroethene | 79-01-6 | 0.099 | 0.38 | 0.96 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.064 | 0.18 | 0.46 | Not Detected |
| J = Estimated value. D: Analyte not within | the DoD scope of accreditation. | | | | |
| Surrogates | CAS# | | | Limits | %Recovery |
| 1,2-Dichloroethane-de | 4 17060-07-0 | | | 70-130 | 113 |
| 4-Bromofluorobenzen | e 460-00-4 | | | 70-130 | 104 |
| Toluene-d8 | 2037-26-5 | | | 70-130 | 95 |

Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| Client ID: Lab ID: Date/Time Collected: Media: | IAF-11895BELDENCT-02_070920 2007405-03A 7/9/20 05:08 PM 6 Liter Summa Canister (100% Cert Ambien | Date/Time An Dilution Fact Instrument/F | t or: 1 | 7/20/20 10:08 PM I.88 nsd22.i / 22072020 | |
|---|---|---|----------------|--|-------------------|
| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
| 1,1-Dichloroethene | 75-35-4 | 0.23 | 0.30 | 0.74 | Not Detected |
| 1,4-Dioxane | 123-91-1 | 0.13 | 0.27 | 0.68 | 0.29 J |
| cis-1,2-Dichloroethen | e 156-59-2 | 0.076 | 0.30 | 0.74 | Not Detected |
| Tetrachloroethene | 127-18-4 | 0.29 | 0.51 | 1.3 | 0.41 J |
| trans-1,2-Dichloroethe | ene 156-60-5 | 0.12 | 0.30 | 0.74 | Not Detected |
| Trichloroethene | 79-01-6 | 0.10 | 0.40 | 1.0 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.067 | 0.19 | 0.48 | Not Detected |
| J = Estimated value. D: Analyte not within | the DoD scope of accreditation. | | | | |
| Surrogates | CAS# | | | Limits | %Recovery |
| 1,2-Dichloroethane-d4 | 4 17060-07-0 | | | 70-130 | 113 |
| 4-Bromofluorobenzen | e 460-00-4 | | | 70-130 | 101 |
| Toluene-d8 | 2037-26-5 | | | 70-130 | 97 |

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MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Ford LTP **Client ID:**

Lab ID:

Media:

Lab Blank 2007405-04A

Date/Time Collected: NA - Not Applicable

NA - Not Applicable

Date/Time Analyzed: **Dilution Factor:** Instrument/Filename:

1.00 msd22.i / 22072006a

7/20/20 11:12 AM

| | | MDL | LOD | Rpt. Limit | Amount |
|--------------------------|----------|---------|---------|------------|--------------|
| Compound | CAS# | (ug/m3) | (ug/m3) | (ug/m3) | (ug/m3) |
| 1,1-Dichloroethene | 75-35-4 | 0.12 | 0.16 | 0.40 | Not Detected |
| 1,4-Dioxane | 123-91-1 | 0.068 | 0.14 | 0.36 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 0.041 | 0.16 | 0.40 | Not Detected |
| Tetrachloroethene | 127-18-4 | 0.15 | 0.27 | 0.68 | Not Detected |
| trans-1,2-Dichloroethene | 156-60-5 | 0.066 | 0.16 | 0.40 | Not Detected |
| Trichloroethene | 79-01-6 | 0.055 | 0.21 | 0.54 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.036 | 0.10 | 0.26 | Not Detected |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 114 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 102 |
| Toluene-d8 | 2037-26-5 | 70-130 | 95 |

Air Toxics

Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Ford LTP

| Client ID: | CCV | | |
|----------------------|---------------------|----------------------|--------------------|
| Lab ID: | 2007405-05A | Date/Time Analyzed: | 7/20/20 08:21 AM |
| Date/Time Collected: | NA - Not Applicable | Dilution Factor: | 1.00 |
| Media: | NA - Not Applicable | Instrument/Filename: | msd22.i / 22072002 |

| Compound | CAS# | %Recovery |
|--------------------------|----------|-----------|
| 1,1-Dichloroethene | 75-35-4 | 105 |
| 1,4-Dioxane | 123-91-1 | 104 |
| cis-1,2-Dichloroethene | 156-59-2 | 102 |
| Tetrachloroethene | 127-18-4 | 100 |
| trans-1,2-Dichloroethene | 156-60-5 | 100 |
| Trichloroethene | 79-01-6 | 100 |
| Vinyl Chloride | 75-01-4 | 97 |

D: Analyte not within the DoD scope of accreditation.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 93 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 101 |
| Toluene-d8 | 2037-26-5 | 70-130 | 105 |

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Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Ford LTP

| Client ID: | LCS | | |
|---------------------|---------------------|----------------------|--------------------|
| Lab ID: | 2007405-06A | Date/Time Analyzed: | 7/20/20 09:05 AM |
| Date/Time Collected | NA - Not Applicable | Dilution Factor: | 1.00 |
| Media: | NA - Not Applicable | Instrument/Filename: | msd22.i / 22072003 |

| Compound | CAS# | %Recovery |
|--------------------------|----------|-----------|
| 1,1-Dichloroethene | 75-35-4 | 109 |
| 1,4-Dioxane | 123-91-1 | 112 |
| cis-1,2-Dichloroethene | 156-59-2 | 107 |
| Tetrachloroethene | 127-18-4 | 103 |
| trans-1,2-Dichloroethene | 156-60-5 | 105 |
| Trichloroethene | 79-01-6 | 103 |
| Vinyl Chloride | 75-01-4 | 104 |

D: Analyte not within the DoD scope of accreditation.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 95 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 97 |
| Toluene-d8 | 2037-26-5 | 70-130 | 105 |

* % Recovery is calculated using unrounded analytical results.

Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Ford LTP

| Client ID: | LCSD | | |
|----------------------|---------------------|----------------------|--------------------|
| Lab ID: | 2007405-06AA | Date/Time Analyzed: | 7/20/20 09:46 AM |
| Date/Time Collected: | NA - Not Applicable | Dilution Factor: | 1.00 |
| Media: | NA - Not Applicable | Instrument/Filename: | msd22.i / 22072004 |

| Compound | CAS# | %Recovery |
|--------------------------|----------|-----------|
| 1,1-Dichloroethene | 75-35-4 | 109 |
| 1,4-Dioxane | 123-91-1 | 112 |
| cis-1,2-Dichloroethene | 156-59-2 | 109 |
| Tetrachloroethene | 127-18-4 | 100 |
| trans-1,2-Dichloroethene | 156-60-5 | 105 |
| Trichloroethene | 79-01-6 | 100 |
| Vinyl Chloride | 75-01-4 | 106 |

D: Analyte not within the DoD scope of accreditation.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 96 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 99 |
| Toluene-d8 | 2037-26-5 | 70-130 | 103 |

July 23, 2020



Kris Hinskey Arcadis Inc 10559 Citation Ave Suite 100 Brighton, MI 48116

CADENA project ID: E203631 Project: Ford Livonia Transmission Project - Soil Gas and Groundwater Project number: 30050315.0301.01 Client project scopereference: Sample COC only was used to define project analytical requirements. Laboratory: Eurofins Air Toxics -Folsom Laboratorysubmittal: 2007405 Sample date: 2020-07-09 Report received byCADENA: 2020-07-23 Initial DataVerification completed: 2020-07-23

3 Air samples were analyzed for TO-15 parameters.

No data qualifications or sample integrity issues were observed.

Data verification for the report specified above was completed using the Ford Motor Company Environmental Laboratory Technical Specification, the CADENA Standard Operating Procedure for the Verification of Environmental Analytical Data and the associated analytical methods as references for evaluating the batch QC, sample data and report content. The EPA National Functional Guidelines for validating organic and inorganic data were used as guidance when addressing out of control QC results and the associated data qualifiers.

Analytical results reported between RDL and MDL are flagged 'J' and considered estimated values.

The definitions of the qualifiers used for this data package are defined in the analytical report. CADENA valid qualifiers are defined in the table below. To view and download a PDF copy of the laboratory analytical report access the CADENA CLMS at http://clms.cadenaco.com/index.cfm.

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Inc, 1099 Highland Drive, Suite E, Ann Arbor, MI 48108 517-819-0356

CADENA Valid Qualifiers

| Valid Qualifiers | Description |
|---------------------|--|
| < | Less than the reported concentration. |
| > | Greater than the reported concentration. |
| В | The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was greater than the RDL and less than 5x (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the reported concentration. For Inorganic methods the sample concentration was greater than the RDL and less than 10x the blank concentration and is considered non-detect at the reported concentration. |
| Е | The analyte / Compound reported exceeds the calibration range and is considered estimated. |
| EMPC | Estimated Minimum Potential Contamination - Dioxin/Furan analyses only. |
| J | Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of an analyte / compound but the result is less than the sample Quantitation limit, but greater than zero. The flag is also used in data validation to indicate a reported value should be considered estimated due to associated quality assurance deficiencies. |
| J- | The result is an estimated quantity, but the result may be biased low. |
| JB | NON-DETECT AT THE CONCENTRATION REPORTED AND ESTIMATED |
| JH | The sample result is considered estimated and is potentially biased high. |
| JL | The sample result is considered estimated and is potentially biased low. |
| JUB | NON-DETECT AT THE REPORTING LIMIT AND ESTIMATED |
| NJ | Tentatively identified compound with approximated concentration. |
| R | Indicates the value is considered to be unusable. (Note: The analyte / compound may or may not be present.) |
| TNTC | Too Numerous to Count - Asbestos and Microbiological Results. |
| U | Indicates that the analyte / compound was analyzed for, but not detected. |
| UB | The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was less than the RDL and less than $5x$ (or $10x$ for common lab contaminates) the blank concentration and is considered non-detect at the RDL. For Inorganic methods the sample concentration was less than the RDL and less than $10x$ the blank concentration and is considered non-detect at the RDL. |
| UJ | The analyte / compound was not detected above the reported sample Quantitation limit. However, the Quantitation limit is considered to be approximate due to associated quality assurance results and may or may not represent the actual limit of Quantitation to accurately and precisely report the analyte in the sample. |



Ford Motor Company – Livonia Transmission Project

DATA REVIEW

Livonia, Michigan

Volatile Organic Compounds (VOC) TO-15 Analysis

SDG #2007405 CADENA Verification Report: 2020-07-23

Analyses Performed By: Eurofins Air Toxics Folsom, California

Report #37882R Review Level: Tier III Project: 30050315.301.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 2007405 for samples collected in association with the Ford – Livonia, Michigan site. The review was conducted as a Tier III validation in addition to a verification/Tier II validation review performed by CADENA Inc. and included review of level IV laboratory data package completeness. Only elements of a Tier III validation effort (Tier III includes a detailed review of laboratory raw data to check for errors in calculation, calibration review, internal standard review and compound identification) and omitted deviations from the CADENA verification/Tier II report are documented in this report. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

| SDG | Sample ID | Lab ID | Matrix | Sample Collection Date | Parent Sample | ے TO-15 (Full Scan) | Analysis TO-15 (SIM) | MISC |
|---------|-------------------------------------|-------------|--------|------------------------------|------------------|------------------------------|----------------------------|------|
| | AA-11895BELDENCT- 03_070920 | 2007405-01A | Air | 7/9/2020 | | х | | |
| 2007405 | IAF- 11895BELDENCT- 01_070920 | 2007405-02A | Air | 7/9/2020 | | х | | |
| | IAF- 11895BELDENCT- 02_070920 | 2007405-03A | Air | 7/9/2020 | | х | | |

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

| | Rep | Reported | | rmance ptable | Not |
|--|-----|----------|----|------------------|----------|
| Items Reviewed | No | Yes | No | Yes | Required |
| 1. Sample receipt condition | | Х | | X | |
| 2. Requested analyses and sample results | | Х | | Х | |
| 3. Master tracking list | | Х | | Х | |
| 4. Methods of analysis | | Х | | Х | |
| 5. Reporting limits | | Х | | Х | |
| 6. Sample collection date | | Х | | Х | |
| 7. Laboratory sample received date | | Х | | Х | |
| 8. Sample preservation verification (as applicable) | | Х | | Х | |
| 9. Sample preparation/extraction/analysis dates | | Х | | Х | |
| 10. Fully executed Chain-of-Custody (COC) form | | Х | | Х | |
| 11. Narrative summary of Quality Assurance or sample problems provided | | х | | Х | |
| 12. Data Package Completeness and Compliance | | Х | | Х | |

DATA REVIEW

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) Method TO-15 (Full Scan). Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
 - UJ The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
 - J+ The result is an estimated quantity, but the result may be biased high.
 - J- The result is an estimated quantity, but the result may be biased low.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

| Method | Matrix | Holding Time | Preservation | Return Canister Pressure |
|-------------|--------|--|---------------------|-----------------------------|
| USEPA TO-15 | Air | 30 days from collection to analysis (Canister) | Ambient Temperature | < -2" Hg |

All samples were analyzed within the specified holding time and canister return pressure / vacuum criteria.

2. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

3. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

3.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (30%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

All compounds associated with the initial calibrations were within the specified control limits.

3.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (30%) and RRF value greater than control limit (0.05).

All compounds associated with the continuing calibrations were within the specified control limits.

4. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the VOC exhibit area counts that are not greater than 140% or less than 60% of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

DATA REVIEW

5. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

6. Field Duplicate Sample Analysis

The field duplicate analysis is used to assess the precision of the field sampling procedures and analytical method. A control limit of 35% for air matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are not greater than five times the RL, a control limit of three times the RL is applied to the difference between the duplicate sample results.

A field duplicate was not performed on a sample location within this SDG.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

| VOCs: TO-15 (Full Scan) | Re | Reported | | Performance Acceptable | |
|---|----------|----------|----|---------------------------|----------|
| | No | Yes | No | Yes | Requirec |
| GAS CHROMATOGRAPHY/MASS SPECTROMET | RY (GC/I | MS) | | | |
| Tier II Validation | | | | | |
| Canister return pressure (<-2"Hg) | | Х | | Х | |
| Tier III Validation | | - | ! | | |
| System performance and column resolution | | Х | | Х | |
| Initial calibration %RSDs | | X | | X | |
| Continuing calibration RRFs | | Х | | Х | |
| Continuing calibration %Ds | | Х | | X | |
| Instrument tune and performance check | | Х | | Х | |
| Ion abundance criteria for each instrument used | | Х | | X | |
| Internal standard | | Х | | X | |
| Field Duplicate Sample RPD | | | | | Х |
| Compound identification and quantitation | | | | | |
| A. Reconstructed ion chromatograms | | X | | X | |
| B. Quantitation Reports | | Х | | Х | |
| C. RT of sample compounds within the established RT windows | | X | | х | |
| D. Transcription/calculation errors present | | X | | X | |
| E. Reporting limits adjusted to reflect sample dilutions | | Х | | Х | |

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Joseph C. Houser

SIGNATURE:

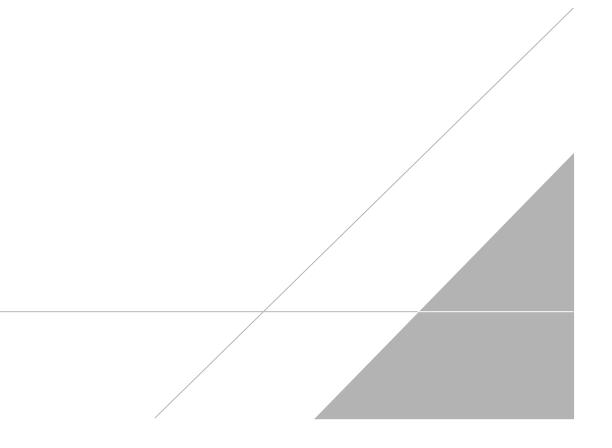
Jough c. House

DATE: August 17, 2020

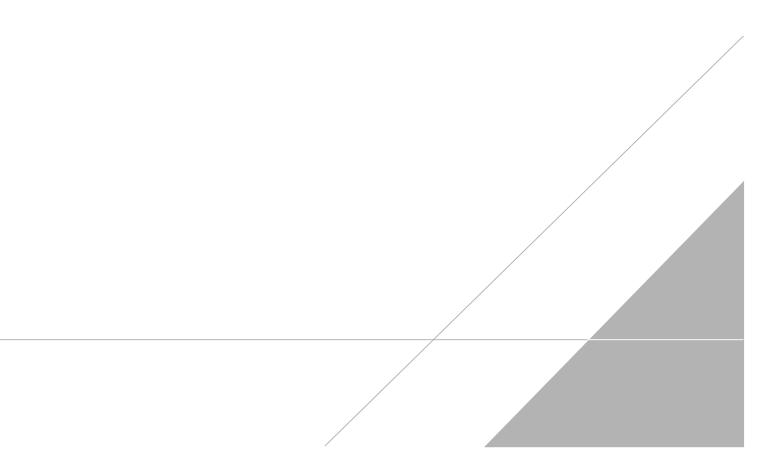
PEER REVIEW: Dennis Capria

DATE: August 20, 2020

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| Client ID: Lab ID: Date/Time Collected: Media: | AA-11895BELDENCT-03_070920 2007405-01A 7/9/20 05:05 PM 6 Liter Summa Canister (100% Cert Ambie | Date/Time A Dilution Fact Instrument/F | tor: | 7/20/20 08:56 PM 1.91 msd22.i / 22072018 | |
|---|---|--|----------------|--|-------------------|
| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit) (ug/m3) | Amount (ug/m3) |
| 1,1-Dichloroethene | 75-35-4 | 0.23 | 0.30 | 0.76 | Not Detected |
| 1,4-Dioxane | 123-91-1 | 0.13 | 0.28 | 0.69 | Not Detected |
| cis-1,2-Dichloroethen | e 156-59-2 | 0.078 | 0.30 | 0.76 | Not Detected |
| Tetrachloroethene | 127-18-4 | 0.30 | 0.52 | 1.3 | Not Detected |
| trans-1,2-Dichloroethe | ene 156-60-5 | 0.12 | 0.30 | 0.76 | Not Detected |
| Trichloroethene | 79-01-6 | 0.10 | 0.41 | 1.0 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.068 | 0.20 | 0.49 | Not Detected |
| D: Analyte not within | the DoD scope of accreditation. | | | | |
| Surrogates | CAS# | | | Limits | %Recovery |
| 1,2-Dichloroethane-d4 | 4 17060-07-0 | | | 70-130 | 114 |
| 4-Bromofluorobenzen | e 460-00-4 | | | 70-130 | 102 |
| Toluene-d8 | 2037-26-5 | | | 70-130 | 96 |

Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| Client ID: Lab ID: Date/Time Collected: Media: | IAF-11895BELDENCT-01_070920 2007405-02A 7/9/20 05:07 PM 6 Liter Summa Canister (100% Cert Ambier | Dilution Fact | Date/Time Analyzed:7/20/20 09:Dilution Factor:1.79Instrument/Filename:msd22.i / 2 | | |
|---|---|----------------|---|-----------------------|-------------------|
| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
| 1,1-Dichloroethene | 75-35-4 | 0.22 | 0.28 | 0.71 | Not Detected |
| 1,4-Dioxane | 123-91-1 | 0.12 | 0.26 | 0.64 | 0.19 J |
| cis-1,2-Dichloroethen | e 156-59-2 | 0.073 | 0.28 | 0.71 | Not Detected |
| Tetrachloroethene | 127-18-4 | 0.28 | 0.48 | 1.2 | Not Detected |
| trans-1,2-Dichloroethe | ene 156-60-5 | 0.12 | 0.28 | 0.71 | Not Detected |
| Trichloroethene | 79-01-6 | 0.099 | 0.38 | 0.96 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.064 | 0.18 | 0.46 | Not Detected |
| J = Estimated value. D: Analyte not within | the DoD scope of accreditation. | | | | |
| Surrogates | CAS# | | | Limits | %Recovery |
| 1,2-Dichloroethane-de | 4 17060-07-0 | | | 70-130 | 113 |
| 4-Bromofluorobenzen | e 460-00-4 | | | 70-130 | 104 |
| Toluene-d8 | 2037-26-5 | | | 70-130 | 95 |

Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| Client ID: Lab ID: Date/Time Collected: Media: | IAF-11895BELDENCT-02_070920 2007405-03A 7/9/20 05:08 PM 6 Liter Summa Canister (100% Cert Ambien | Date/Time An Dilution Fact Instrument/F | t or: 1 | 7/20/20 10:08 PM 1.88 msd22.i / 22072020 | | |
|---|---|---|----------------|--|-------------------|--|
| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) | |
| 1,1-Dichloroethene | 75-35-4 | 0.23 | 0.30 | 0.74 | Not Detected | |
| 1,4-Dioxane | 123-91-1 | 0.13 | 0.27 | 0.68 | 0.29 J | |
| cis-1,2-Dichloroethen | e 156-59-2 | 0.076 | 0.30 | 0.74 | Not Detected | |
| Tetrachloroethene | 127-18-4 | 0.29 | 0.51 | 1.3 | 0.41 J | |
| trans-1,2-Dichloroethe | ene 156-60-5 | 0.12 | 0.30 | 0.74 | Not Detected | |
| Trichloroethene | 79-01-6 | 0.10 | 0.40 | 1.0 | Not Detected | |
| Vinyl Chloride | 75-01-4 | 0.067 | 0.19 | 0.48 | Not Detected | |
| J = Estimated value. D: Analyte not within | the DoD scope of accreditation. | | | | | |
| Surrogates | CAS# | | | Limits | %Recovery | |
| 1,2-Dichloroethane-d4 | 4 17060-07-0 | | | 70-130 | 113 | |
| 4-Bromofluorobenzen | e 460-00-4 | | | 70-130 | 101 | |
| Toluene-d8 | 2037-26-5 | | | 70-130 | 97 | |

Analysis Request /Canister Chain of Custody

| 400 01 | Paulua | | PID: | | Workord | ler #: | <u> 200</u> 7 | <u>7405</u> | | | Click III | nks belo | w to view | <i>r</i> : | | | |
|--------------------|----------------------------|--|--------------------------|----------------------|-----------------|-----------------|-----------------|--------------------|----------------------------------|-----------------|------------------------|--|--|---|---------------------|---------------------|----------------------------|
| | | Rd. Suite B, Folsom, CA 95 -5955; Fax (916) 351-8279 | 630 | | | | | | | | <u>Caniste</u> | r Samplir | ng Guide | | | | |
| Client: | <u> </u> | Ford | PID: N | NA | Special | Instructions/ | Notes: Rep | ort ONLY: 1,1-D | CE. cis-1,2- | T Ti | | Shroud V | <u>/ideo</u> (Rush sui | | | Surfaces | ginareneo errene |
| Project | Name: | Ford LTP | | <u></u> | - | | | | | | Interour | | (Rush sui / Turnarou | | may a | ppiy) | ·· |
| | Manager: | Kris Hinskey | P.O.# 3005031 | 5.0301.01 | DUE, tra | ins-1,2-DCE, 1 | ,4-Dioxane, | , PCE, TCE and | VC. Submit | | stor Vac | 5 Day | | | | - | - |
| Sample | er; | Xenia Chan, Patrick Labadie | | | | nrough Caden: | a at jim.tom; | alia@cadena.co | m. Cadena | | Ster vau | | | 0 | ested A | Inaiya | 108 T |
| Site Na | ime: | 11895 BELDEN | | | #E2036 | 31. Level IV Re | enorting | | | | | | Ise Only | . ¥ | lyze | | |
| Lab ID | ٤ | Sample Identification | Can # | | Controller # | Start Sa | mpling | Stop Sa Inform | | Initial (in Hg) | Final (in Hg) | Receipt | Final (psig) Gas: N ₂ / He | TO-15 (See Special Instructions/Notes | Do Not Analyze | | |
| | | | | | | Date | Time | Date | Time | i i i | Fine | l Se | Gas | Instr 1 | å | | |
| 51A 52A 52A | AA-1* | 1895BELDENCT-03_070920 | 6L2484 | 23 | 3283 | 7/9/2020 | 10:08 | 7/9/2020 | 17:05 | -29.5 | -7.5 | | | X | +-+ | | |
| <u>524</u> | | 1895BELDENCT-01_070920 | 000001091 | 24 | 4124 | 7/9/2020 | 10:05 | 7/9/2020 | 17:07 | -29.5 | -7 | | | X | 1-1 | | |
| <u>کما</u> | IAF-1 | 1895BELDENCT-02_070920 | 6L1570 | 24 | 4373 | 7/9/2020 | 10:07 | 7/9/2020 | 17:08 | -29.5 | -7 | en e | | x | 1 | | |
| 61888 1997 - | | ··· | | | - | | | | | | | | | | + | | <u> </u> |
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| 2020-00 2020-00 | | ···· | | | | *** | | | | | | | | | | [] | <u> </u> |
| anang Tanàng | | | | | | 1718. | | | | | | | 12007 | | + | | — |
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| 94002 | | | | | | | | | | | | Jel da | | | | | |
| | <u></u> | | - | | | | | | | | | | 1992 | | + | | |
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| | | | | | <u></u> | | | | | 1 | | 2000,207 | | | 1 | † | i |
| Ch | asti | ignature/Affiliation) IM HUOMM / A ignature/Affiliation) | HRCA OIS | Date 7/14 Date | 12020 | D Time Time | 20 | Received by: (| EAR | - | | | Date ∩///// Date | no | Time 100 Time | 015 | |
| Relinqui | shed by: (Si | ignature/Affiliation) | | Date | | Time | | Received by: (i | | | | | Date | | Time | | |
| | | | | | | | | | olgnataren in | menory | | | Date | | Tarie | | |
| | | | inde Sindo di Sindo di U | | | Lab Use C | Dnly | | | | | | | | . | | |
| Shipper N | | FRAK | Custody Seals Inta | | Yes | | None | | 60 | JN | | | | | | | |
| Sam ordina | ple Transp ances of any | portation Notice: Relinquishing s y kind. Relinquishing signature als | so indicates agreemer | nt to hold ha | armless, d | defend, and ind | ternify Euro | ofins Air Toxics a | l applicable lo against any c | ocal State |), Federa and, or a | II, and int | ternational any kind, | l laws, reg related to | julation the co | is, and illectio | i m, |
| | | | | nanoing, c | л snipping | j of samples. D | J.O. I Hotline | e (800) 467-492 | 2 | | | | | | | | |



7/22/2020 Mr. Jim Tomalia Arcadis U.S., Inc. 28550 Cabot Dr. Suite 500 Novi MI 48377

Project Name: Ford LTP Project #: Workorder #: 2007424

Dear Mr. Jim Tomalia

The following report includes the data for the above referenced project for sample(s) received on 7/16/2020 at Air Toxics Ltd.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Scott

Ausha Scott Project Manager

180 Blue Ravine Road, Suite B Folsom, CA 95630



WORK ORDER #: 2007424

Work Order Summary

| CLIENT: | Mr. Jim Tomalia Arcadis U.S., Inc. 28550 Cabot Dr. Suite 500 Novi, MI 48377 | BILL TO: | Accounts Payable Arcadis U.S., Inc. 630 Plaza Drive Suite 600 Highlands Ranch, CO 80129 |
|-----------------------------------|---|---------------|---|
| PHONE: | 517-819-0356 | P.O. # | 30050315.0301.01 |
| FAX: | | PROJECT # | Ford LTP |
| DATE RECEIVED: DATE COMPLETED: | 07/16/2020 07/22/2020 | CONTACT: | Ausha Scott |

| | | | RECEIPT | FINAL |
|------------|------------------------------|-------|------------|----------|
| FRACTION # | NAME | TEST | VAC./PRES. | PRESSURE |
| 01A | SSMP-11895BELDENCT-03_070920 | TO-15 | 6.9 "Hg | 16.1 psi |
| 02A | SSMP-11895BELDENCT-01_070920 | TO-15 | 7.1 "Hg | 16.1 psi |
| 03A | Lab Blank | TO-15 | NA | NA |
| 04A | CCV | TO-15 | NA | NA |
| 05A | LCS | TO-15 | NA | NA |
| 05AA | LCSD | TO-15 | NA | NA |
| | | | | |

CERTIFIED BY:

layes end

07/22/20 DATE:

DECEIDT

ETNIAT

Technical Director

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209218, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-18-13, UT NELAP – CA009332019-11, VA NELAP - 460197, WA NELAP - C935 Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) Accreditation number: CA300005-011, Effective date: 10/18/2019, Expiration date: 10/17/2020. Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, LLC.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000 . (800) 985-5955 . FAX (916) 351-8279

LABORATORY NARRATIVE EPA Method TO-15 Arcadis U.S., Inc. Workorder# 2007424

Two 1 Liter Summa Canister (100% Certified) samples were received on July 16, 2020. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per client project requirements, the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

- E Exceeds instrument calibration range.
- S Saturated peak.
- Q Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

- N The identification is based on presumptive evidence.
- M Reported value may be biased due to apparent matrix interferences.

CN - See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Air Toxics

EPA METHOD TO-15 GC/MS FULL SCAN

| Client ID: Lab ID: Date/Time Collected: Media: | SSMP-11895BELDENCT-03_070920 2007424-01A 7/9/20 10:31 AM 1 Liter Summa Canister (100% Certified) | Dilution Fac | Date/Time Analyzed:7/21/20 01:12 AMDilution Factor:2.72Instrument/Filename:msdp.i / p072028 | | |
|---|---|----------------|---|-------------------------|-------------------|
| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit) (ug/m3) | Amount (ug/m3) |
| 1,1-Dichloroethene | 75-35-4 | 1.4 | 2.7 | 5.4 | Not Detected |
| 1,4-Dioxane | 123-91-1 | 0.99 | 4.9 | 20 | Not Detected |
| cis-1,2-Dichloroethen | e 156-59-2 | 0.76 | 2.7 | 5.4 | Not Detected |
| Tetrachloroethene | 127-18-4 | 1.1 | 4.6 | 9.2 | 20 |
| trans-1,2-Dichloroethe | ene 156-60-5 | 1.2 | 2.7 | 5.4 | Not Detected |
| Trichloroethene | 79-01-6 | 0.61 | 3.6 | 7.3 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.51 | 1.7 | 3.5 | Not Detected |
| D: Analyte not within | the DoD scope of accreditation. | | | | |
| Surrogates | CAS# | | | Limits | %Recovery |
| 1,2-Dichloroethane-de | 4 17060-07-0 | | | 70-130 | 87 |
| 4-Bromofluorobenzen | e 460-00-4 | | | 70-130 | 89 |
| Toluene-d8 | 2037-26-5 | | | 70-130 | 104 |

Air Toxics

EPA METHOD TO-15 GC/MS FULL SCAN

| Client ID: Lab ID: Date/Time Collected: Media: | SSMP-11895BELDENCT-01_070920 2007424-02A 7/9/20 10:31 AM 1 Liter Summa Canister (100% Certified) | Date/Time A Dilution Fac Instrument/F | tor: 2 | 7/21/20 01:41 AM 2.74 nsdp.i / p072029 | |
|---|---|---|----------------|--|-------------------|
| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
| 1,1-Dichloroethene | 75-35-4 | 1.4 | 2.7 | 5.4 | Not Detected |
| 1,4-Dioxane | 123-91-1 | 0.99 | 4.9 | 20 | 2.0 J |
| cis-1,2-Dichloroethene | 9 156-59-2 | 0.76 | 2.7 | 5.4 | Not Detected |
| Tetrachloroethene | 127-18-4 | 1.2 | 4.6 | 9.3 | Not Detected |
| trans-1,2-Dichloroethe | ne 156-60-5 | 1.2 | 2.7 | 5.4 | Not Detected |
| Trichloroethene | 79-01-6 | 0.61 | 3.7 | 7.4 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.51 | 1.8 | 3.5 | Not Detected |
| J = Estimated value. D: Analyte not within t | he DoD scope of accreditation. | | | | |
| Surrogates | CAS# | | | Limits | %Recovery |
| 1,2-Dichloroethane-d4 | 17060-07-0 | | | 70-130 | 90 |
| 4-Bromofluorobenzen | e 460-00-4 | | | 70-130 | 90 |
| Toluene-d8 | 2037-26-5 | | | 70-130 | 101 |

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EPA METHOD TO-15 GC/MS FULL SCAN

Ford LTP **Client ID:**

Lab ID:

Media:

Lab Blank 2007424-03A

NA - Not Applicable

Date/Time Collected: NA - Not Applicable

Date/Time Analyzed: 7/20/20 11:33 AM **Dilution Factor:** Instrument/Filenam

| | 1.00 |
|-----|-------------------|
| ne: | msdp.i / p072007c |

| | | MDL | LOD | Rpt. Limit | Amount |
|--------------------------|----------|---------|---------|------------|--------------|
| Compound | CAS# | (ug/m3) | (ug/m3) | (ug/m3) | (ug/m3) |
| 1,1-Dichloroethene | 75-35-4 | 0.50 | 0.99 | 2.0 | Not Detected |
| 1,4-Dioxane | 123-91-1 | 0.36 | 1.8 | 7.2 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 0.28 | 0.99 | 2.0 | Not Detected |
| Tetrachloroethene | 127-18-4 | 0.42 | 1.7 | 3.4 | Not Detected |
| trans-1,2-Dichloroethene | 156-60-5 | 0.45 | 0.99 | 2.0 | Not Detected |
| Trichloroethene | 79-01-6 | 0.22 | 1.3 | 2.7 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.19 | 0.64 | 1.3 | Not Detected |

D: Analyte not within the DoD scope of accreditation.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 99 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 105 |
| Toluene-d8 | 2037-26-5 | 70-130 | 98 |

Air Toxics

🔅 eurofins

Air Toxics

EPA METHOD TO-15 GC/MS FULL SCAN

Ford LTP

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| Client ID: | CCV | | |
|----------------------|---------------------|----------------------|------------------|
| Lab ID: | 2007424-04A | Date/Time Analyzed: | 7/20/20 09:10 AM |
| Date/Time Collected: | NA - Not Applicable | Dilution Factor: | 1.00 |
| Media: | NA - Not Applicable | Instrument/Filename: | msdp.i / p072002 |

| Compound | CAS# | %Recovery |
|--------------------------|----------|-----------|
| 1,1-Dichloroethene | 75-35-4 | 93 |
| 1,4-Dioxane | 123-91-1 | 109 |
| cis-1,2-Dichloroethene | 156-59-2 | 100 |
| Tetrachloroethene | 127-18-4 | 106 |
| trans-1,2-Dichloroethene | 156-60-5 | 93 |
| Trichloroethene | 79-01-6 | 101 |
| Vinyl Chloride | 75-01-4 | 84 |

D: Analyte not within the DoD scope of accreditation.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 95 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 103 |
| Toluene-d8 | 2037-26-5 | 70-130 | 95 |

Air Toxics

EPA METHOD TO-15 GC/MS FULL SCAN

Ford LTP

| Client ID: | LCS | | |
|----------------------|---------------------|----------------------|------------------|
| Lab ID: | 2007424-05A | Date/Time Analyzed: | 7/20/20 09:38 AM |
| Date/Time Collected: | NA - Not Applicable | Dilution Factor: | 1.00 |
| Media: | NA - Not Applicable | Instrument/Filename: | msdp.i / p072003 |

| Compound | CAS# | %Recovery |
|--------------------------|----------|-----------|
| 1,1-Dichloroethene | 75-35-4 | 94 |
| 1,4-Dioxane | 123-91-1 | 100 |
| cis-1,2-Dichloroethene | 156-59-2 | 109 |
| Tetrachloroethene | 127-18-4 | 104 |
| trans-1,2-Dichloroethene | 156-60-5 | 82 |
| Trichloroethene | 79-01-6 | 100 |
| Vinyl Chloride | 75-01-4 | 83 |

D: Analyte not within the DoD scope of accreditation.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 95 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 105 |
| Toluene-d8 | 2037-26-5 | 70-130 | 97 |

* % Recovery is calculated using unrounded analytical results.

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Air Toxics

EPA METHOD TO-15 GC/MS FULL SCAN

Ford LTP

| Client ID: | LCSD | | |
|----------------------|---------------------|----------------------|------------------|
| Lab ID: | 2007424-05AA | Date/Time Analyzed: | 7/20/20 10:05 AM |
| Date/Time Collected: | NA - Not Applicable | Dilution Factor: | 1.00 |
| Media: | NA - Not Applicable | Instrument/Filename: | msdp.i / p072004 |

| Compound | CAS# | %Recovery |
|--------------------------|----------|-----------|
| 1,1-Dichloroethene | 75-35-4 | 100 |
| 1,4-Dioxane | 123-91-1 | 98 |
| cis-1,2-Dichloroethene | 156-59-2 | 116 |
| Tetrachloroethene | 127-18-4 | 107 |
| trans-1,2-Dichloroethene | 156-60-5 | 86 |
| Trichloroethene | 79-01-6 | 98 |
| Vinyl Chloride | 75-01-4 | 94 |

D: Analyte not within the DoD scope of accreditation.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 100 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 104 |
| Toluene-d8 | 2037-26-5 | 70-130 | 97 |

* % Recovery is calculated using unrounded analytical results.

July 22, 2020



Kris Hinskey Arcadis Inc 10559 Citation Ave Suite 100 Brighton, MI 48116

CADENA project ID: E203631 Project: Ford Livonia Transmission Project - Soil Gas and Groundwater Project number: 30050315.0301.01 Client project scopereference: Sample COC only was used to define project analytical requirements. Laboratory: Eurofins Air Toxics -Folsom Laboratory submittal: 2007424 Sample date: 2020-07-09 Report received by CADENA: 2020-07-22 Initial DataVerification completed: 2020-07-22

2 Air samples were analyzed for TO-15 parameters.

No data qualifications or sample integrity issues were observed.

Data verification for the report specified above was completed using the Ford Motor Company Environmental Laboratory Technical Specification, the CADENA Standard Operating Procedure for the Verification of Environmental Analytical Data and the associated analytical methods as references for evaluating the batch QC, sample data and report content. The EPA National Functional Guidelines for validating organic and inorganic data were used as guidance when addressing out of control QC results and the associated data qualifiers.

Analytical results reported between RDL and MDL are flagged 'J' and considered estimated values.

The definitions of the qualifiers used for this data package are defined in the analytical report. CADENA valid qualifiers are defined in the table below. To view and download a PDF copy of the laboratory analytical report access the CADENA CLMS at http://clms.cadenaco.com/index.cfm.

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Inc, 1099 Highland Drive, Suite E, Ann Arbor, MI 48108 517-819-0356

CADENA Valid Qualifiers

| Valid Qualifiers | Description |
|---------------------|--|
| < | Less than the reported concentration. |
| > | Greater than the reported concentration. |
| В | The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was greater than the RDL and less than $5x$ (or $10x$ for common lab contaminates) the blank concentration and is considered non-detect at the reported concentration. For Inorganic methods the sample concentration was greater than the RDL and less than $10x$ the blank concentration and is considered non-detect at the reported concentration. |
| Е | The analyte / Compound reported exceeds the calibration range and is considered estimated. |
| EMPC | Estimated Minimum Potential Contamination - Dioxin/Furan analyses only. |
| J | Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of an analyte / compound but the result is less than the sample Quantitation limit, but greater than zero. The flag is also used in data validation to indicate a reported value should be considered estimated due to associated quality assurance deficiencies. |
| J- | The result is an estimated quantity, but the result may be biased low. |
| JB | NON-DETECT AT THE CONCENTRATION REPORTED AND ESTIMATED |
| JH | The sample result is considered estimated and is potentially biased high. |
| JL | The sample result is considered estimated and is potentially biased low. |
| JUB | NON-DETECT AT THE REPORTING LIMIT AND ESTIMATED |
| NJ | Tentatively identified compound with approximated concentration. |
| R | Indicates the value is considered to be unusable. (Note: The analyte / compound may or may not be present.) |
| TNTC | Too Numerous to Count - Asbestos and Microbiological Results. |
| U | Indicates that the analyte / compound was analyzed for, but not detected. |
| UB | The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was less than the RDL and less than $5x$ (or $10x$ for common lab contaminates) the blank concentration and is considered non-detect at the RDL. For Inorganic methods the sample concentration was less than the RDL and less than $10x$ the blank concentration and is considered non-detect at the RDL. |
| UJ | The analyte / compound was not detected above the reported sample Quantitation limit. However, the Quantitation limit is considered to be approximate due to associated quality assurance results and may or may not represent the actual limit of Quantitation to accurately and precisely report the analyte in the sample. |



Ford Motor Company – Livonia Transmission Project

DATA REVIEW

Livonia, Michigan

Volatile Organic Compounds (VOC) TO-15 Analysis

SDG #2007424 CADENA Verification Report: 2020-07-22

Analyses Performed By: Eurofins Air Toxics Folsom, California

Report #37883R Review Level: Tier III Project: 30050315.301.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 2007424 for samples collected in association with the Ford – Livonia, Michigan site. The review was conducted as a Tier III validation in addition to a verification/Tier II validation review performed by CADENA Inc. and included review of level IV laboratory data package completeness. Only elements of a Tier III validation effort (Tier III includes a detailed review of laboratory raw data to check for errors in calculation, calibration review, internal standard review and compound identification) and omitted deviations from the CADENA verification/Tier II report are documented in this report. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

| SDG | Sample ID | Lab ID | Matrix | Sample Collection Date | Parent Sample | ا TO-15 (Full Scan) | Analysis TO-15 (SIM) | MISC |
|---------|--------------------------------------|-------------|--------|------------------------------|------------------|------------------------------|----------------------------|------|
| 2007424 | SSMP- 11895BELDENCT- 03_070920 | 2007424-01A | Air | 7/9/2020 | | x | | |
| | SSMP- 11895BELDENCT- 01_070920 | 2007424-02A | Air | 7/9/2020 | | x | | |

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

| | Rep | orted | | rmance ptable | Not | |
|--|-----|-------|----|------------------|----------|--|
| Items Reviewed | No | Yes | No | Yes | Required | |
| 1. Sample receipt condition | | X | | Х | | |
| 2. Requested analyses and sample results | | Х | | X | | |
| 3. Master tracking list | | Х | | Х | | |
| 4. Methods of analysis | | Х | | Х | | |
| 5. Reporting limits | | Х | | Х | | |
| 6. Sample collection date | | Х | | Х | | |
| 7. Laboratory sample received date | | Х | | Х | | |
| 8. Sample preservation verification (as applicable) | | Х | | Х | | |
| 9. Sample preparation/extraction/analysis dates | | Х | | Х | | |
| 10. Fully executed Chain-of-Custody (COC) form | | Х | | Х | | |
| 11. Narrative summary of Quality Assurance or sample problems provided | | х | | х | | |
| 12. Data Package Completeness and Compliance | | Х | | Х | | |

DATA REVIEW

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) Method TO-15 (Full Scan). Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
 - UJ The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
 - J+ The result is an estimated quantity, but the result may be biased high.
 - J- The result is an estimated quantity, but the result may be biased low.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

| Method | Matrix | Holding Time | Preservation | Return Canister Pressure |
|-------------|--------|--|---------------------|-----------------------------|
| USEPA TO-15 | Air | 30 days from collection to analysis (Canister) | Ambient Temperature | < -2" Hg |

All samples were analyzed within the specified holding time and canister return pressure / vacuum criteria.

2. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

3. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

3.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (30%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

All compounds associated with the initial calibrations were within the specified control limits.

3.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (30%) and RRF value greater than control limit (0.05).

All compounds associated with the continuing calibrations were within the specified control limits.

4. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the VOC exhibit area counts that are not greater than 140% or less than 60% of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

DATA REVIEW

5. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

6. Field Duplicate Sample Analysis

The field duplicate analysis is used to assess the precision of the field sampling procedures and analytical method. A control limit of 35% for air matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are not greater than five times the RL, a control limit of three times the RL is applied to the difference between the duplicate sample results.

A field duplicate was not performed on a sample location within this SDG.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

| VOCs: TO-15 (Full Scan) | Re | eported | Perfo Acc | Not | |
|---|----------|---------|--------------|-----|----------|
| | No | Yes | No | Yes | Required |
| GAS CHROMATOGRAPHY/MASS SPECTROMET | RY (GC/I | MS) | | | |
| Tier II Validation | | | | | |
| Canister return pressure (<-2"Hg) | | X | | Х | |
| Tier III Validation | | - | ! | | |
| System performance and column resolution | | X | | X | |
| Initial calibration %RSDs | | X | | X | |
| Continuing calibration RRFs | | X | | X | |
| Continuing calibration %Ds | | X | | X | |
| Instrument tune and performance check | | X | | X | |
| Ion abundance criteria for each instrument used | | X | | X | |
| Internal standard | | Х | | Х | |
| Field Duplicate Sample RPD | | | | | Х |
| Compound identification and quantitation | | | | | |
| A. Reconstructed ion chromatograms | | X | | X | |
| B. Quantitation Reports | | X | | Х | |
| C. RT of sample compounds within the established RT windows | | X | | Х | |
| D. Transcription/calculation errors present | | X | | X | |
| E. Reporting limits adjusted to reflect sample dilutions | | X | | Х | |

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Joseph C. Houser

SIGNATURE:

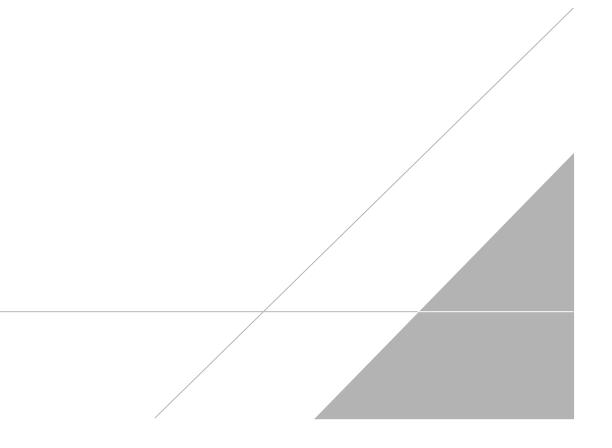
Jough c. House

DATE: August 17, 2020

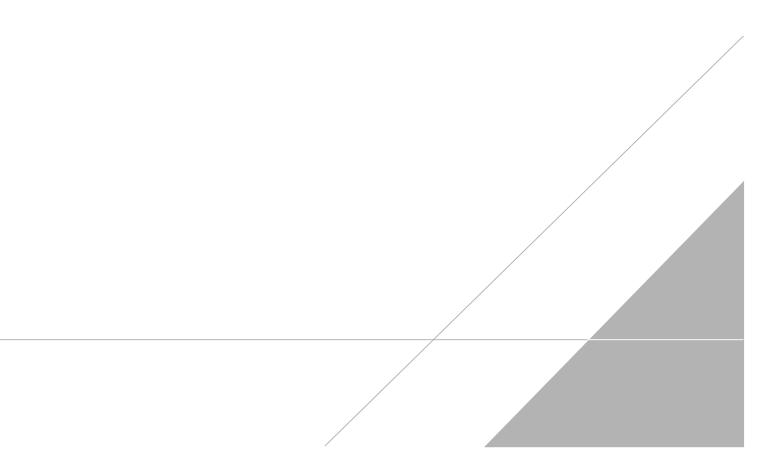
PEER REVIEW: Dennis Capria

DATE: August 20, 2020

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS



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Air Toxics

EPA METHOD TO-15 GC/MS FULL SCAN

Ford LTP

| Client ID: Lab ID: Date/Time Collected: Media: | SSMP-11895BELDENCT-03_070920 2007424-01A 7/9/20 10:31 AM 1 Liter Summa Canister (100% Certified) | Date/Time A Dilution Fact Instrument/F | tor: | 7/21/20 01:12 AM 2.72 msdp.i / p072028 | |
|---|---|--|----------------|--|-------------------|
| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit) (ug/m3) | Amount (ug/m3) |
| 1,1-Dichloroethene | 75-35-4 | 1.4 | 2.7 | 5.4 | Not Detected |
| 1,4-Dioxane | 123-91-1 | 0.99 | 4.9 | 20 | Not Detected |
| cis-1,2-Dichloroethen | e 156-59-2 | 0.76 | 2.7 | 5.4 | Not Detected |
| Tetrachloroethene | 127-18-4 | 1.1 | 4.6 | 9.2 | 20 |
| trans-1,2-Dichloroethe | ene 156-60-5 | 1.2 | 2.7 | 5.4 | Not Detected |
| Trichloroethene | 79-01-6 | 0.61 | 3.6 | 7.3 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.51 | 1.7 | 3.5 | Not Detected |
| D: Analyte not within | the DoD scope of accreditation. | | | | |
| Surrogates | CAS# | | | Limits | %Recovery |
| 1,2-Dichloroethane-de | 4 17060-07-0 | | | 70-130 | 87 |
| 4-Bromofluorobenzen | e 460-00-4 | | | 70-130 | 89 |
| Toluene-d8 | 2037-26-5 | | | 70-130 | 104 |

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Air Toxics

EPA METHOD TO-15 GC/MS FULL SCAN

Ford LTP

| Client ID: Lab ID: Date/Time Collected: Media: | SSMP-11895BELDENCT-01_070920 2007424-02A 7/9/20 10:31 AM 1 Liter Summa Canister (100% Certified) | Date/Time A Dilution Fac Instrument/F | tor: 2 | 7/21/20 01:41 AM 2.74 nsdp.i / p072029 | | | |
|---|---|---|----------------|--|-------------------|--|--|
| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) | | |
| 1,1-Dichloroethene | 75-35-4 | 1.4 | 2.7 | 5.4 | Not Detected | | |
| 1,4-Dioxane | 123-91-1 | 0.99 | 4.9 | 20 | 2.0 J | | |
| cis-1,2-Dichloroethene | 156-59-2 | 0.76 | 2.7 | 5.4 | Not Detected | | |
| Tetrachloroethene | 127-18-4 | 1.2 | 4.6 | 9.3 | Not Detected | | |
| trans-1,2-Dichloroethe | ne 156-60-5 | 1.2 | 2.7 | 5.4 | Not Detected | | |
| Trichloroethene | 79-01-6 | 0.61 | 3.7 | 7.4 | Not Detected | | |
| Vinyl Chloride | 75-01-4 | 0.51 | 1.8 | 3.5 | Not Detected | | |
| J = Estimated value. D: Analyte not within t | he DoD scope of accreditation. | | | | | | |
| Surrogates | CAS# | | | Limits | %Recovery | | |
| 1,2-Dichloroethane-d4 | 17060-07-0 | | | 70-130 | 90 | | |
| 4-Bromofluorobenzen | e 460-00-4 | | | 70-130 | 90 | | |
| Toluene-d8 | 2037-26-5 | | | 70-130 | 101 | | |

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| Client: | Ford | PID: N | NA | Special Instructions/Notes: Report ONLY: 1,1-DCE, cis-1,2- | | | | | 2- Turnaround Time (Rush surcharges may apply) | | | | | | | |
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| ordinances of | f any kind. Relinquishing signature al | iso indicates agreeme | nt to hold ha | armless, de | fend, and ind | emnify Euro | ofins Air Toxics : | against any cl | laim, derr | nand, or a | action. of | any kind. | related to | the col | llection | |
| | | | handling, o | of shipping | of samples. D | OT Hotline | e (800) 467-492 | 2 | | | | | | | | |