

10/14/2019  
Mr. Jim Tomalia  
Arcadis U.S., Inc.  
28550 Cabot Dr.  
Suite 500  
Novi MI 48377

Project Name: Ford LTP  
Project #:  
Workorder #: 1910190

Dear Mr. Jim Tomalia

The following report includes the data for the above referenced project for sample(s) received on 10/7/2019 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,



Ausha Scott  
Project Manager

**WORK ORDER #: 1910190**

Work Order Summary

<b>CLIENT:</b>	Mr. Jim Tomalia Arcadis U.S., Inc. 28550 Cabot Dr. Suite 500 Novi, MI 48377	<b>BILL TO:</b>	Accounts Payable Arcadis U.S., Inc. 630 Plaza Drive Suite 600 Highlands Ranch, CO 80129
<b>PHONE:</b>	517-819-0356	<b>P.O. #</b>	30016344.0002B
<b>FAX:</b>		<b>PROJECT #</b>	Ford LTP
<b>DATE RECEIVED:</b>	10/07/2019	<b>CONTACT:</b>	Ausha Scott
<b>DATE COMPLETED:</b>	10/11/2019		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	AA-34990BEACON-01_100219	Modified TO-15	6.9 "Hg	5.3 psi
02A	IAB-34990BEACON-03_100219	Modified TO-15	6.5 "Hg	5.1 psi
03A	IAF-34990BEACON-02_100219	Modified TO-15	6.5 "Hg	5.1 psi
03B	IAF-34990BEACON-02_100219	Modified TO-15	6.5 "Hg	5.1 psi
04A	IAG-34990BEACON-01_100219	Modified TO-15	5.7 "Hg	5 psi
04B	IAG-34990BEACON-01_100219	Modified TO-15	5.7 "Hg	5 psi
05A	DUP-34990BEACON-01_100219	Modified TO-15	8.2 "Hg	4.8 psi
06A	Lab Blank	Modified TO-15	NA	NA
06B	Lab Blank	Modified TO-15	NA	NA
07A	CCV	Modified TO-15	NA	NA
07B	CCV	Modified TO-15	NA	NA
08A	LCS	Modified TO-15	NA	NA
08AA	LCSD	Modified TO-15	NA	NA
08B	LCS	Modified TO-15	NA	NA
08BB	LCSD	Modified TO-15	NA	NA

CERTIFIED BY:   
 \_\_\_\_\_  
 Technical Director

DATE: 10/14/19

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: 10/18/2018, Expiration date: 10/17/2019.

Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

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**LABORATORY NARRATIVE**  
**Modified TO-15**  
**Arcadis U.S., Inc.**  
**Workorder# 1910190**

Five 6 Liter Summa Canister (100% Cert Ambient) samples were received on October 07, 2019. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

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

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
Initial Calibration	<math>\leq 30\%</math> RSD with 2 compounds allowed out to <math>< 40\%</math> RSD	<math>\leq 30\%</math> RSD with 4 compounds allowed out to <math>< 40\%</math> RSD
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.

Dilution was performed on samples IAF-34990BEACON-02\_100219 and IAG-34990BEACON-01\_100219 due to the presence of high level non-target species.

**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

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN  
Ford LTP

<b>Client ID:</b>	AA-34990BEACON-01_100219	<b>Date/Time Analyzed:</b>	10/8/19 03:27 PM
<b>Lab ID:</b>	1910190-01A	<b>Dilution Factor:</b>	1.77
<b>Date/Time Collected:</b>	10/2/19 01:03 PM	<b>Instrument/Filename:</b>	msd22.i / 22100810
<b>Media:</b>	6 Liter Summa Canister (100% Cert Ambier)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	75-35-4	0.13	0.35	0.70	Not Detected
1,4-Dioxane	123-91-1	0.15	0.32	0.64	Not Detected
cis-1,2-Dichloroethene	156-59-2	0.16	0.35	0.70	Not Detected
Tetrachloroethene	127-18-4	0.073	0.60	1.2	0.13 J
trans-1,2-Dichloroethene	156-60-5	0.11	0.35	0.70	0.12 J
Trichloroethene	79-01-6	0.10	0.48	0.95	Not Detected
Vinyl Chloride	75-01-4	0.064	0.23	0.45	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	120
4-Bromofluorobenzene	460-00-4	70-130	106
Toluene-d8	2037-26-5	70-130	97

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN  
Ford LTP

<b>Client ID:</b>	IAB-34990BEACON-03_100219	<b>Date/Time Analyzed:</b>	10/8/19 04:03 PM
<b>Lab ID:</b>	1910190-02A	<b>Dilution Factor:</b>	1.72
<b>Date/Time Collected:</b>	10/2/19 11:56 AM	<b>Instrument/Filename:</b>	msd22.i / 22100811
<b>Media:</b>	6 Liter Summa Canister (100% Cert Ambier)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	75-35-4	0.13	0.34	0.68	Not Detected
1,4-Dioxane	123-91-1	0.14	0.31	0.62	Not Detected
cis-1,2-Dichloroethene	156-59-2	0.15	0.34	0.68	Not Detected
Tetrachloroethene	127-18-4	0.070	0.58	1.2	0.12 J
trans-1,2-Dichloroethene	156-60-5	0.11	0.34	0.68	0.20 J
Trichloroethene	79-01-6	0.10	0.46	0.92	Not Detected
Vinyl Chloride	75-01-4	0.063	0.22	0.44	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	114
4-Bromofluorobenzene	460-00-4	70-130	108
Toluene-d8	2037-26-5	70-130	97

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN  
Ford LTP

<b>Client ID:</b>	IAF-34990BEACON-02_100219	<b>Date/Time Analyzed:</b>	10/8/19 05:12 PM
<b>Lab ID:</b>	1910190-03A	<b>Dilution Factor:</b>	3.44
<b>Date/Time Collected:</b>	10/2/19 11:54 AM	<b>Instrument/Filename:</b>	msd22.i / 22100813
<b>Media:</b>	6 Liter Summa Canister (100% Cert Ambier		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	75-35-4	0.26	0.68	1.4	Not Detected
1,4-Dioxane	123-91-1	0.29	0.62	1.2	Not Detected
cis-1,2-Dichloroethene	156-59-2	0.30	0.68	1.4	Not Detected
Tetrachloroethene	127-18-4	0.14	1.2	2.3	Not Detected
trans-1,2-Dichloroethene	156-60-5	0.21	0.68	1.4	Not Detected
Vinyl Chloride	75-01-4	0.12	0.44	0.88	Not Detected

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	111
4-Bromofluorobenzene	460-00-4	70-130	106
Toluene-d8	2037-26-5	70-130	97

MODIFIED EPA METHOD TO-15 GC/MS SIM  
Ford LTP

<b>Client ID:</b>	IAF-34990BEACON-02_100219	<b>Date/Time Analyzed:</b>	10/8/19 05:12 PM
<b>Lab ID:</b>	1910190-03B	<b>Dilution Factor:</b>	3.44
<b>Date/Time Collected:</b>	10/2/19 11:54 AM	<b>Instrument/Filename:</b>	msd22.i / 22100813sim
<b>Media:</b>	6 Liter Summa Canister (100% Cert Ambier		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	79-01-6	0.036	0.15	0.37	0.042 J

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	112
4-Bromofluorobenzene	460-00-4	70-130	108
Toluene-d8	2037-26-5	70-130	94



MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN  
Ford LTP

<b>Client ID:</b>	IAG-34990BEACON-01_100219	<b>Date/Time Analyzed:</b>	10/8/19 06:22 PM
<b>Lab ID:</b>	1910190-04A	<b>Dilution Factor:</b>	4.15
<b>Date/Time Collected:</b>	10/2/19 11:59 AM	<b>Instrument/Filename:</b>	msd22.i / 22100815
<b>Media:</b>	6 Liter Summa Canister (100% Cert Ambier)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	75-35-4	0.31	0.82	1.6	Not Detected
1,4-Dioxane	123-91-1	0.35	0.75	1.5	Not Detected
cis-1,2-Dichloroethene	156-59-2	0.36	0.82	1.6	Not Detected
Tetrachloroethene	127-18-4	0.17	1.4	2.8	Not Detected
trans-1,2-Dichloroethene	156-60-5	0.26	0.82	1.6	Not Detected
Vinyl Chloride	75-01-4	0.15	0.53	1.1	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	89
Toluene-d8	2037-26-5	70-130	101

MODIFIED EPA METHOD TO-15 GC/MS SIM  
Ford LTP

<b>Client ID:</b>	IAG-34990BEACON-01_100219	<b>Date/Time Analyzed:</b>	10/8/19 06:22 PM
<b>Lab ID:</b>	1910190-04B	<b>Dilution Factor:</b>	4.15
<b>Date/Time Collected:</b>	10/2/19 11:59 AM	<b>Instrument/Filename:</b>	msd22.i / 22100815sim
<b>Media:</b>	6 Liter Summa Canister (100% Cert Ambier)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	79-01-6	0.043	0.18	0.45	Not Detected

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	89
Toluene-d8	2037-26-5	70-130	96

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN  
Ford LTP

<b>Client ID:</b>	DUP-34990BEACON-01_100219	<b>Date/Time Analyzed:</b>	10/8/19 04:39 PM
<b>Lab ID:</b>	1910190-05A	<b>Dilution Factor:</b>	1.82
<b>Date/Time Collected:</b>	10/2/19 12:00 AM	<b>Instrument/Filename:</b>	msd22.i / 22100812
<b>Media:</b>	6 Liter Summa Canister (100% Cert Ambier)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	75-35-4	0.14	0.36	0.72	Not Detected
1,4-Dioxane	123-91-1	0.15	0.33	0.66	Not Detected
cis-1,2-Dichloroethene	156-59-2	0.16	0.36	0.72	Not Detected
Tetrachloroethene	127-18-4	0.075	0.62	1.2	0.14 J
trans-1,2-Dichloroethene	156-60-5	0.11	0.36	0.72	0.14 J
Trichloroethene	79-01-6	0.10	0.49	0.98	Not Detected
Vinyl Chloride	75-01-4	0.066	0.23	0.46	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	119
4-Bromofluorobenzene	460-00-4	70-130	106
Toluene-d8	2037-26-5	70-130	97

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN  
Ford LTP

<b>Client ID:</b>	Lab Blank	<b>Date/Time Analyzed:</b>	10/8/19 12:40 PM
<b>Lab ID:</b>	1910190-06A	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd22.i / 22100807a
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	75-35-4	0.075	0.20	0.40	Not Detected
1,4-Dioxane	123-91-1	0.084	0.18	0.36	Not Detected
cis-1,2-Dichloroethene	156-59-2	0.088	0.20	0.40	Not Detected
Tetrachloroethene	127-18-4	0.041	0.34	0.68	Not Detected
trans-1,2-Dichloroethene	156-60-5	0.062	0.20	0.40	Not Detected
Trichloroethene	79-01-6	0.058	0.27	0.54	Not Detected
Vinyl Chloride	75-01-4	0.036	0.13	0.26	Not Detected

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	116
4-Bromofluorobenzene	460-00-4	70-130	105
Toluene-d8	2037-26-5	70-130	96

MODIFIED EPA METHOD TO-15 GC/MS SIM  
Ford LTP

<b>Client ID:</b>	Lab Blank	<b>Date/Time Analyzed:</b>	10/8/19 12:40 PM
<b>Lab ID:</b>	1910190-06B	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd22.i / 22100807simc
<b>Media:</b>	NA - Not Applicable		

<b>Compound</b>	<b>CAS#</b>	<b>MDL (ug/m3)</b>	<b>LOD (ug/m3)</b>	<b>Rpt. Limit (ug/m3)</b>	<b>Amount (ug/m3)</b>
Trichloroethene	79-01-6	0.010	0.043	0.11	Not Detected

D: Analyte not within the DoD scope of accreditation.

<b>Surrogates</b>	<b>CAS#</b>	<b>Limits</b>	<b>%Recovery</b>
1,2-Dichloroethane-d4	17060-07-0	70-130	119
4-Bromofluorobenzene	460-00-4	70-130	104
Toluene-d8	2037-26-5	70-130	95

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN  
Ford LTP

<b>Client ID:</b>	CCV	<b>Date/Time Analyzed:</b>	10/8/19 09:47 AM
<b>Lab ID:</b>	1910190-07A	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd22.i / 22100803
<b>Media:</b>	NA - Not Applicable		

<b>Compound</b>	<b>CAS#</b>	<b>%Recovery</b>
1,1-Dichloroethene	75-35-4	100
1,4-Dioxane	123-91-1	104
cis-1,2-Dichloroethene	156-59-2	101
Tetrachloroethene	127-18-4	82
trans-1,2-Dichloroethene	156-60-5	92
Trichloroethene	79-01-6	83
Vinyl Chloride	75-01-4	95

D: Analyte not within the DoD scope of accreditation.

<b>Surrogates</b>	<b>CAS#</b>	<b>Limits</b>	<b>%Recovery</b>
1,2-Dichloroethane-d4	17060-07-0	70-130	108
4-Bromofluorobenzene	460-00-4	70-130	93
Toluene-d8	2037-26-5	70-130	102

MODIFIED EPA METHOD TO-15 GC/MS SIM  
Ford LTP

<b>Client ID:</b>	CCV	<b>Date/Time Analyzed:</b>	10/8/19 09:47 AM
<b>Lab ID:</b>	1910190-07B	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd22.i / 22100803sim
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
Trichloroethene	79-01-6	77

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	111
4-Bromofluorobenzene	460-00-4	70-130	94
Toluene-d8	2037-26-5	70-130	97

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN  
Ford LTP

<b>Client ID:</b>	LCS	<b>Date/Time Analyzed:</b>	10/8/19 10:38 AM
<b>Lab ID:</b>	1910190-08A	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd22.i / 22100804
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
1,1-Dichloroethene	75-35-4	103
1,4-Dioxane	123-91-1	109
cis-1,2-Dichloroethene	156-59-2	97
Tetrachloroethene	127-18-4	86
trans-1,2-Dichloroethene	156-60-5	108
Trichloroethene	79-01-6	88
Vinyl Chloride	75-01-4	101

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	110
4-Bromofluorobenzene	460-00-4	70-130	95
Toluene-d8	2037-26-5	70-130	103

\* % Recovery is calculated using unrounded analytical results.



MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN  
Ford LTP

<b>Client ID:</b>	LCSD	<b>Date/Time Analyzed:</b>	10/8/19 11:23 AM
<b>Lab ID:</b>	1910190-08AA	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd22.i / 22100805
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
1,1-Dichloroethene	75-35-4	102
1,4-Dioxane	123-91-1	108
cis-1,2-Dichloroethene	156-59-2	95
Tetrachloroethene	127-18-4	84
trans-1,2-Dichloroethene	156-60-5	106
Trichloroethene	79-01-6	87
Vinyl Chloride	75-01-4	100

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	106
4-Bromofluorobenzene	460-00-4	70-130	97
Toluene-d8	2037-26-5	70-130	103

\* % Recovery is calculated using unrounded analytical results.

MODIFIED EPA METHOD TO-15 GC/MS SIM  
Ford LTP

<b>Client ID:</b>	LCS	<b>Date/Time Analyzed:</b>	10/8/19 10:38 AM
<b>Lab ID:</b>	1910190-08B	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd22.i / 22100804sim
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
Trichloroethene	79-01-6	80

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	111
4-Bromofluorobenzene	460-00-4	70-130	94
Toluene-d8	2037-26-5	70-130	97

\* % Recovery is calculated using unrounded analytical results.

MODIFIED EPA METHOD TO-15 GC/MS SIM  
Ford LTP

<b>Client ID:</b>	LCSD	<b>Date/Time Analyzed:</b>	10/8/19 11:23 AM
<b>Lab ID:</b>	1910190-08BB	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd22.i / 22100805sim
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
Trichloroethene	79-01-6	80

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	108
4-Bromofluorobenzene	460-00-4	70-130	96
Toluene-d8	2037-26-5	70-130	97

\* % Recovery is calculated using unrounded analytical results.



October 14, 2019

Kris Hinskey  
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Brighton, MI 48116

CADENA project ID: E203631  
Project: Ford Livonia Transmission Project - OFF-SITE - Soil Gas and Groundwater  
Project number: 30016344.0002B  
Client project scope reference: Sample COC only was used to define project analytical requirements.  
Laboratory: Eurofins Air Toxics - Folsom  
Laboratory submittal: 1910190  
Sample date: 2019-10-02  
Report received by CADENA: 2019-10-14  
Initial Data Verification completed: 2019-10-14  
5 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.
B	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 contaminants) 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.
E	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 contaminants) 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 #1910190

CADENA Verification Report: 2019-10-14

Analyses Performed By:  
Eurofins Air Toxics  
Folsom, California

Report #34613R  
Review Level: Tier III  
Project: 30016344.00007

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## DATA REVIEW

### SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 1910190 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	Analysis		
						TO-15 (Full Scan)	TO-15 (SIM)	MISC
1910190	AA-34990BEACON-01_100219	1910190-01A	Air	10/2/2019		X		
	IAB-34990BEACON-03_100219	1910190-02A	Air	10/2/2019		X		
	IAF-34990BEACON-02_100219	1910190-03B	Air	10/2/2019		X	X	
	IAG-34990BEACON-01_100219	1910190-04B	Air	10/2/2019		X	X	
	DUP-34990BEACON-01_100219	1910190-05A	Air	10/2/2019	AA-34990BEACON-01_100219	X		

## DATA REVIEW

### ANALYTICAL DATA PACKAGE DOCUMENTATION

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

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



## DATA REVIEW

### ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) Method TO-15 (Full Scan) and TO-15-SIM. 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.

## DATA REVIEW

### 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 and USEPA TO-15-SIM	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 one times the RL is applied to the difference between the duplicate sample results.

Results (in  $\mu\text{g}/\text{m}^3$ ) for the field duplicate samples are summarized in the following table.

Sample ID / Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
AA-34990BEACON-01_100219/ DUP-34990BEACON-01_100219	Tetrachloroethene	0.13 J	0.14 J	AC
	trans-1,2-Dichloroethene	0.12 J	0.14 J	AC

AC Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

### 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 REVIEW**

**DATA VALIDATION CHECKLIST FOR VOCs**

VOCs: TO-15 ( Full Scan) and TO-15 SIM	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
<b>GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)</b>					
<b>Tier II Validation</b>					
Canister return pressure (<-2”Hg)		X		X	
<b>Tier III Validation</b>					
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		X		X	
Field Duplicate Sample RPD		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%RSD Relative standard deviation

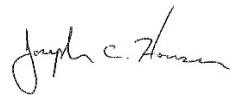
%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Joseph C. Houser

SIGNATURE:



DATE: October 29, 2019

PEER REVIEW: Dennis Capria

DATE: October 31, 2019



**CHAIN OF CUSTODY  
CORRECTED SAMPLE ANALYSIS DATA  
SHEETS**



**NO CORRECTIONS/QUALIFIERS ADDED  
TO SAMPLE ANALYSIS DATA SHEETS**



MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN  
Ford LTP

<b>Client ID:</b>	AA-34990BEACON-01_100219	<b>Date/Time Analyzed:</b>	10/8/19 03:27 PM
<b>Lab ID:</b>	1910190-01A	<b>Dilution Factor:</b>	1.77
<b>Date/Time Collected:</b>	10/2/19 01:03 PM	<b>Instrument/Filename:</b>	msd22.i / 22100810
<b>Media:</b>	6 Liter Summa Canister (100% Cert Ambier)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	75-35-4	0.13	0.35	0.70	Not Detected
1,4-Dioxane	123-91-1	0.15	0.32	0.64	Not Detected
cis-1,2-Dichloroethene	156-59-2	0.16	0.35	0.70	Not Detected
Tetrachloroethene	127-18-4	0.073	0.60	1.2	0.13 J
trans-1,2-Dichloroethene	156-60-5	0.11	0.35	0.70	0.12 J
Trichloroethene	79-01-6	0.10	0.48	0.95	Not Detected
Vinyl Chloride	75-01-4	0.064	0.23	0.45	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	120
4-Bromofluorobenzene	460-00-4	70-130	106
Toluene-d8	2037-26-5	70-130	97



MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN  
Ford LTP

<b>Client ID:</b>	IAB-34990BEACON-03_100219	<b>Date/Time Analyzed:</b>	10/8/19 04:03 PM
<b>Lab ID:</b>	1910190-02A	<b>Dilution Factor:</b>	1.72
<b>Date/Time Collected:</b>	10/2/19 11:56 AM	<b>Instrument/Filename:</b>	msd22.i / 22100811
<b>Media:</b>	6 Liter Summa Canister (100% Cert Ambier)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	75-35-4	0.13	0.34	0.68	Not Detected
1,4-Dioxane	123-91-1	0.14	0.31	0.62	Not Detected
cis-1,2-Dichloroethene	156-59-2	0.15	0.34	0.68	Not Detected
Tetrachloroethene	127-18-4	0.070	0.58	1.2	0.12 J
trans-1,2-Dichloroethene	156-60-5	0.11	0.34	0.68	0.20 J
Trichloroethene	79-01-6	0.10	0.46	0.92	Not Detected
Vinyl Chloride	75-01-4	0.063	0.22	0.44	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	114
4-Bromofluorobenzene	460-00-4	70-130	108
Toluene-d8	2037-26-5	70-130	97

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN  
Ford LTP

<b>Client ID:</b>	IAF-34990BEACON-02_100219	<b>Date/Time Analyzed:</b>	10/8/19 05:12 PM
<b>Lab ID:</b>	1910190-03A	<b>Dilution Factor:</b>	3.44
<b>Date/Time Collected:</b>	10/2/19 11:54 AM	<b>Instrument/Filename:</b>	msd22.i / 22100813
<b>Media:</b>	6 Liter Summa Canister (100% Cert Ambier		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	75-35-4	0.26	0.68	1.4	Not Detected
1,4-Dioxane	123-91-1	0.29	0.62	1.2	Not Detected
cis-1,2-Dichloroethene	156-59-2	0.30	0.68	1.4	Not Detected
Tetrachloroethene	127-18-4	0.14	1.2	2.3	Not Detected
trans-1,2-Dichloroethene	156-60-5	0.21	0.68	1.4	Not Detected
Vinyl Chloride	75-01-4	0.12	0.44	0.88	Not Detected

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	111
4-Bromofluorobenzene	460-00-4	70-130	106
Toluene-d8	2037-26-5	70-130	97

MODIFIED EPA METHOD TO-15 GC/MS SIM  
Ford LTP

<b>Client ID:</b>	IAF-34990BEACON-02_100219	<b>Date/Time Analyzed:</b>	10/8/19 05:12 PM
<b>Lab ID:</b>	1910190-03B	<b>Dilution Factor:</b>	3.44
<b>Date/Time Collected:</b>	10/2/19 11:54 AM	<b>Instrument/Filename:</b>	msd22.i / 22100813sim
<b>Media:</b>	6 Liter Summa Canister (100% Cert Ambier)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	79-01-6	0.036	0.15	0.37	0.042 J

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	112
4-Bromofluorobenzene	460-00-4	70-130	108
Toluene-d8	2037-26-5	70-130	94

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN  
Ford LTP

<b>Client ID:</b>	IAG-34990BEACON-01_100219	<b>Date/Time Analyzed:</b>	10/8/19 06:22 PM
<b>Lab ID:</b>	1910190-04A	<b>Dilution Factor:</b>	4.15
<b>Date/Time Collected:</b>	10/2/19 11:59 AM	<b>Instrument/Filename:</b>	msd22.i / 22100815
<b>Media:</b>	6 Liter Summa Canister (100% Cert Ambier)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	75-35-4	0.31	0.82	1.6	Not Detected
1,4-Dioxane	123-91-1	0.35	0.75	1.5	Not Detected
cis-1,2-Dichloroethene	156-59-2	0.36	0.82	1.6	Not Detected
Tetrachloroethene	127-18-4	0.17	1.4	2.8	Not Detected
trans-1,2-Dichloroethene	156-60-5	0.26	0.82	1.6	Not Detected
Vinyl Chloride	75-01-4	0.15	0.53	1.1	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	89
Toluene-d8	2037-26-5	70-130	101

MODIFIED EPA METHOD TO-15 GC/MS SIM  
Ford LTP

<b>Client ID:</b>	IAG-34990BEACON-01_100219	<b>Date/Time Analyzed:</b>	10/8/19 06:22 PM
<b>Lab ID:</b>	1910190-04B	<b>Dilution Factor:</b>	4.15
<b>Date/Time Collected:</b>	10/2/19 11:59 AM	<b>Instrument/Filename:</b>	msd22.i / 22100815sim
<b>Media:</b>	6 Liter Summa Canister (100% Cert Ambier)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	79-01-6	0.043	0.18	0.45	Not Detected

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	89
Toluene-d8	2037-26-5	70-130	96

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN  
Ford LTP

<b>Client ID:</b>	DUP-34990BEACON-01_100219	<b>Date/Time Analyzed:</b>	10/8/19 04:39 PM
<b>Lab ID:</b>	1910190-05A	<b>Dilution Factor:</b>	1.82
<b>Date/Time Collected:</b>	10/2/19 12:00 AM	<b>Instrument/Filename:</b>	msd22.i / 22100812
<b>Media:</b>	6 Liter Summa Canister (100% Cert Ambier)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	75-35-4	0.14	0.36	0.72	Not Detected
1,4-Dioxane	123-91-1	0.15	0.33	0.66	Not Detected
cis-1,2-Dichloroethene	156-59-2	0.16	0.36	0.72	Not Detected
Tetrachloroethene	127-18-4	0.075	0.62	1.2	0.14 J
trans-1,2-Dichloroethene	156-60-5	0.11	0.36	0.72	0.14 J
Trichloroethene	79-01-6	0.10	0.49	0.98	Not Detected
Vinyl Chloride	75-01-4	0.066	0.23	0.46	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	119
4-Bromofluorobenzene	460-00-4	70-130	106
Toluene-d8	2037-26-5	70-130	97

# Analysis Request /Canister Chain of Custody

180 Blue Ravine Rd. Suite B, Folsom, CA 95630  
 Phone (800) 985-5955; Fax (916) 351-8279

PID: \_\_\_\_\_ For Laboratory Use Only  
 Workorder #: 1910190

Click links below to view:

[Canister Sampling Guide](#)

[Helium Shroud Video](#)

Client: <u>Ford</u>	PID: <u>NA</u>	<b>Special Instructions/Notes:</b> Report ONLY: 1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, 1,4-Dioxane, PCE, TCE and VC. Submit results through Cadena at jim.tomalia@cadena.com. Cadena #E203631. Level IV Reporting	<b>Turnaround Time (Rush surcharges may apply)</b>		
Project Name: <u>Ford LTP</u>			5 Day Turnaround Time		
Project Manager: <u>Kris Hinskey</u>	P.O.# <u>30016344.0002B</u>		<b>Canister Vacuum/Pressure</b>		<b>Requested Analyses</b>
Sampler: <u>Seth Turner, Christina Weaver</u>			Initial (in Hg)	Final (in Hg)	<b>Lab Use Only</b>
Site Name: <u>34990 BEACON</u>		Receipt	Final (psig) Gas: N <sub>2</sub> / He	TO-15 (See Special Instructions/Notes)	
		Do Not Analyze			

Lab ID	Sample Identification	Can #	Flow Controller #	Start Sampling Information		Stop Sampling Information		Initial (in Hg)	Final (in Hg)	Receipt	Final (psig) Gas: N <sub>2</sub> / He	TO-15 (See Special Instructions/Notes)	Do Not Analyze
				Date	Time	Date	Time						
01A	AA-34990BEACON-01_100219	6L2126	24454	10/1/2019	13:26	10/2/2019	13:03	-29.5	-7			X	
02A	IAB-34990BEACON-03_100219	6L2383	21246	10/1/2019	13:02	10/2/2019	11:56	-29.5	-6.5			X	
03A	IAF-34990BEACON-02_100219	6L1654	20517	10/1/2019	12:56	10/2/2019	11:54	-29.5	-6.5			X	
04A	IAG-34990BEACON-01_100219	6L1855	40339	10/1/2019	13:05	10/2/2019	11:59	-29.5	-6			X	
05A	DUP-34990BEACON-01_100219	6L0553	24090	10/1/2019	--	10/2/2019	--	-29.5	-8			X	
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Relinquished by: (Signature/Affiliation) <u>Chaslin Allen / Accadis</u>	Date <u>10/3/19</u>	Time <u>1500</u>	Received by: (Signature/Affiliation) <u>Jim IATL</u>	Date <u>10/7/19</u>	Time <u>0935</u>
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time

Shipper Name: <u>ITDIX</u>	Custody Seals Intact? <input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> None	Lab Use Only
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**Sample Transportation Notice:** Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, of shipping of samples. D.O.T Hotline (800) 467-4922