INDOOR AIR ANNUAL MONITORING REPORT 2020
LA FITNESS

Former Unisys Site
Lake Success, New York
NYSDEC Site ID# 130045

Prepared for:
Lockheed Martin Corporation

Prepared by:
AMEC E&E PC

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Submitted to:
Division of Environmental Remediation, NYSDEC Region 1

Revision: 0

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LOCKHEED MARTIN FORMER UNISYS FACILITY

INDOOR AIR ANNUAL MONITORING REPORT

LAKE SUCCESS, NEW YORK

I certify that I am currently a New York State registered professional engineer and that this Report was prepared in accordance with all applicable statues and regulations and in substantial conformance with the Division of Environmental Remediation (DER) Technical Guidance for Site Investigation and Remediation (DER-10).

Name	Signature	Date
Stuart C. Pearson Engineer of Record		July 21, 2020

ACRONYMS AND ABBREVIATIONS

AMEC	AMEC E&E, PC
DER	Division of Environmental Remediation
DUSR	Data Usability Summary Reports
EP	extraction point
IA	indoor air
Lockheed Martin	Lockheed Martin Corporation
$\mu g/m^3$	micrograms per cubic meter
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PCE	tetrachloroethene
Report	Indoor Air Annual Monitoring Report
SSDS	sub-slab depressurization system
SSV	sub-slab vapor
SV	soil vapor
TCE	trichloroethene
Unisys	Unisys Corporation
VI	Vapor Intrusion
VOC	volatile organic compound
Work Plan	Indoor Air and Vapor Intrusion Monitoring Work Plan 2020

SECTION 1
INTRODUCTION

On behalf of Lockheed Martin Corporation (Lockheed Martin), AMEC E&E, PC (AMEC) has prepared this Indoor Air Annual Monitoring Report (Report) for the 2020 monitoring program for the LA Fitness building located at 1111 Marcus Avenue in Lake Success, New York.

The active LA Fitness Sub-Slab Depressurization System (SSDS) was installed in January 2019 to address the potential for soil vapor intrusion (VI) to impact the indoor air (IA) quality in the northwest portion of the LA Fitness building. The active LA Fitness SSDS consists of two extraction points (EPs), EP-C5F and EP-E2F (refer to **Figure 1**), each with roof-top mounted extraction blowers that are controlled from a single control panel. Further information on the LA Fitness active SSDS is provided in the *LA Fitness Northwest Portion Sub-Slab Depressurization System Commissioning Technical Memorandum* (AMEC, 2019). The LA Fitness SSDS is operating as designed.

In 2010, a passive venting system was constructed in the unused partial basement of the LA Fitness Building. This system consists of a vent pipe and an air inlet pipe, which penetrate the limited basement area along the south/central portion of this building and extends to the roof. A wind turbine located on the top of the exhaust pipe allows for suctioning of the basement air, thereby exhausting the basement air to the building exterior and introducing fresh air into the basement through the air inlet pipe. The inlet pipe also extends to the roof bringing ambient air into the basement area.

This Report details the 2019/2020 heating season IA sampling event completed in accordance with the New York Department of Environmental Conservation (NYSDEC)-approved *Indoor Air and Vapor Intrusion Monitoring Work Plan 2020* (Work Plan) (AMEC, 2020). The following information is presented in this Report:

1. Discussion of 2020 IA sampling and laboratory analytical activities;
2. Tables presenting 2020 IA and ambient sampling locations and analytical data;

3. Data Usability Summary Report (DUSR);

4. Copies of Property Owner and Tenant letters presenting the results of the 2020 IA sampling event; and

5. Presentation and discussion of the results of the 2020 IA results (along with ambient sampling results), including assessment and comparison to New York State Department of Health (NYSDOH) *Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York* (NYSDOH, 2006, 2017).

Prior to our discussion of these results, we want to identify concerns regarding activities during our sampling event that potentially affected analytical results. LA Fitness underwent extensive renovation activities during the winter of 2019-2020, including new flooring and walls that employed the application of various adhesives, finishes, and paints. This report will provide further discussions on the potential influences of the use and presence of these substances.

SECTION 2
SITE DESCRIPTION AND SITE HISTORY

2.1 SITE DESCRIPTION

The former Unisys Corporation Facility (Unisys) occupies 90.5 acres that includes the main former manufacturing building and attached office building and three smaller buildings located south of the main building including the former foundry converted to a fitness center (the LA Fitness building), Powerhouse, and the former maintenance garage (which currently houses the equipment for the SSDS covering the main building and the garage [Main SSDS]). **Figure 1** shows the LA Fitness building with the IA locations that were sampled highlighted.

2.2 REGULATORY BACKGROUND

The NYSDOH revised their soil vapor (SV)/IA Decision Matrices, which were originally published in 2006, in May 2017. The November 2017 and March 2018 results indicated that based on the comparisons of IA and sub-slab vapor (SSV) data to the revised mitigation threshold for trichloroethene (TCE), mitigation was required in the northwest portion of the LA Fitness building.

2.3 PREVIOUS VAPOR INTRUSION SAMPLING

VI investigations began in 2007 at the LA Fitness building with a collection of SSV and IA samples. In 2008, samples were collected from the LA Fitness basement. The SSV sampling results indicated the presence of low levels of volatile organic compounds (VOCs) in the basement space (ARCADIS, 2008). In 2010, a passive venting system was installed for the basement area to reduce the likelihood of SSV entering the occupied building.

In 2015, the NYSDEC requested the installation of additional SSV monitoring points at LA Fitness to finalize site closure activities. The results of eight co-located IA and SSV samples collected before and after temporary shutdown of the passive SSDS were compared. This rebound analysis suggested that the passive SSDS should be kept in operation in the unused partial basement of the LA Fitness building. On February 8, 2016, 11 SSV, 12 IA, one basement air, one ambient air, and four duplicate samples were collected from the LA Fitness building to evaluate concentrations of

VOCs present in IA and SSV. Based on these results, reduced VI monitoring was recommended in an email dated May 13, 2016, from NYSDEC and NYSDOH for the 2017/18 heating season.

Subsequent to that recommendation, the NYSDOH updated the SV/IA Decision Matrices in May 2017 (NYSDOH, 2017). The updates included lower mitigation threshold values for SSV. Lockheed Martin provided an addendum to the 2017 sampling event that included installation of six new sub-slab vapor monitoring points (Tetra Tech, 2017). The six new SSV sampling locations were sampled along with four pre-existing sampling locations in November 2017. No IA samples were collected as part of the November 2017 sampling event. Results of the 2017 supplemental sampling event indicated four SSV locations with TCE levels above the new mitigation threshold of 60 micrograms per cubic meter ($\mu g/m^3$); SS-D3F, SS-E2F, SS-C7F, and SS-D5F.

During a March 2018 sampling event, TCE results for SS-D3F and SS-D5F were above the mitigation threshold; the result for SS-C7F was below the threshold; and SS-E2F was not sampled. Analytical results consistently higher than the new mitigation threshold for SSV necessitated the installation of the LA Fitness active SSDS in the northwestern portion of the building.

The March 2019 sampling event was completed following the commissioning and start-up of the LA Fitness SSDS. TCE was not detected in any IA or ambient air samples collected during the 2019 SSV and IA sampling event. Tetrachloroethene (PCE) was detected at all eleven of the IA samples, but not in the ambient air sample. The detections of PCE in IA ranged from an estimated concentration of 0.22 $\mu g/m^3$ to an estimated 0.33 $\mu g/m^3$, all of which are well below the NYSDOH indoor air mitigation thresholds. Carbon tetrachloride and methylene chloride were detected in multiple IA samples and the ambient air sample but were not detected in any SSV samples. The Matrix A/B/C determination for these analytes was No Further Action. PCE results for SSV location SS-D13F and SS-C20F were elevated (greater than 100 $\mu g/m^3$), but below criteria for mitigation. Based upon IA sample results for these locations, the Matrix A/B/C Determination was No Further Action. TCE results for SSV location SS-D13F remained elevated (greater than 6 $\mu g/m^3$), but below criteria for mitigation. Based upon the IA sample results for this location, the Matrix A/B/C Determination was No Further Action.

Based upon the results of the 2019 vapor intrusion sampling and ongoing operations of the LA Fitness SSDS, the NYSDEC approved discontinuing SSV sampling and modifying the VI annual

monitoring to include IA sampling only in areas not mitigated by the LA Fitness SSDS, to confirm that exposures are not occurring in the other parts of the building not influenced by the current SSDS.

SECTION 3
SAMPLING METHODOLOGY

3.1 INDOOR AIR SAMPLING

The IA and ambient air samples were collected consistent with the NYSDOH *Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York* (NYSDOH, 2006, 2017) and the approved Work Plan.

Samples were collected on March 17, 2020 while the LA Fitness SSDS and passive venting system were in operation using SUMMA canisters equipped with flow controllers set to fill over an 8-hour period. Nine IA samples from areas not under (outside of) the influence of the LA Fitness SSDS plus two duplicate IA samples were collected from the LA Fitness building. Additionally, one basement IA sample (IA-12) and one ambient air sample (AA-01) were collected during the sampling event. Refer to **Table 1** for a summary of sample locations.

Samples were submitted to ALS Environmental located in Simi Valley, California for analysis. Samples were analyzed for VOCs by United States Environmental Protection Agency Method TO-15A. DUSR review was completed based on the NYSDEC Division of Environmental Remediation Guidance (NYSDEC, 2010). The DUSR is included in **Appendix A**.

Copies of the sampling logs can be found in **Appendix B**.

SECTION 4
SUMMARY OF RESULTS

Results of the 2020 heating season IA sampling event in LA Fitness are presented in **Table 2** and summarized on **Figure 1.**

The following is a summary of the 2020 LA Fitness IA results for analytes included in the NYSDOH SV/IA matrices:

Analyte	NYSDOH Matrices A,B,C IA Value[1] µg/m^3	NYSDOH IA Guideline Value µg/m^3	2020 Ambient Air Result µg/m^3	2019 Indoor Air Results µg/m^3	2020 Indoor Air Results µg/m^3
1,1,1-Trichloroethane	10	Not Applicable	<1	<0.96	<1
1,1-Dichloroethene	1	Not Applicable	<0.21	<0.96	<0.21
Carbon Tetrachloride	1	Not Applicable	0.38	0.36 to 0.45	0.34 to 0.41
cis-1,2-Dichloroethene	1	Not Applicable	<0.21	<0.94	<0.21
Methylene Chloride	10	60[2]	0.49J	0.34 J to 0.52 J	1.2 to 3.3
Tetrachloroethene	10	30[3]	0.34J	0.22 J to 0.33 J	0.17J to 0.53J
Trichloroethene	1	2[4]	0.26	<0.2	<0.19 to 0.44
Vinyl Chloride	0.2	Not Applicable	<0.21	<0.2	<0.21

Notes:

1. NYSDOH Matrices Indoor Air Value presented is value that would trigger the following action: "identify source(s) and resample or mitigate". Sub-slab vapor samples were previously demonstrated to be below the lowest concentration threshold in the matrices (AMEC, 2019) and based on NYSDEC and NYSDOH input, were not re-sampled in 2020 in accordance with the work plan (AMEC, 2019).
2. New York State Department of Health Tenant Notification Fact Sheet for Dichloromethane, January 2014.
3. Tetrachloroethene (PERC) in Indoor Air and Outdoor Air, September 2013 Fact Sheet, prepared by the Bureau of Toxic Substances Assessment, New York State Department of Health.
4. Trichloroethene (TCE) in Indoor and Outdoor Air, August 2015 Fact Sheet, prepared by the Bureau of Toxic Substances Assessment, New York State Department of Health.
5. The qualifier "J" denotes estimated value between the method detection limit and reporting limit.

1,1,1-Trichloroethane, 1,1-dichloroethene, cis-1,2-dichloroethene, and vinyl chloride were not detected in any of the samples collected.

TCE was detected in two IA samples as well as in the ambient air sample and the unoccupied basement sample (IA-12), which is not included in the table data presented above, collected during the 2020 IA sampling event. The detections of TCE in IA ranged from estimated concentrations of not <0.2 to 0.44 $\mu g/m^3$ in the samples collected from the ground level locations. None of the detections exceed the NYSDOH Indoor Air Matrix A.

PCE was detected in all nine of the IA samples as well as in the ambient air sample and the basement sample. The detections of PCE in IA ranged from estimated concentrations of 0.17 to 0.53 $\mu g/m^3$ in the samples collected from the ground level locations. None of the detections exceeded the NYSDOH Indoor Air Matrix B value.

Carbon tetrachloride was detected in all IA samples as well as in the ambient air sample and the unoccupied basement sample. The detections of carbon tetrachloride in IA ranged from estimated concentrations of 0.34 to 0.41 $\mu g/m^3$ in the samples collected from the ground level locations. Carbon tetrachloride was detected in the ambient air sample at similar concentration.

Methylene chloride was detected in all IA samples as well as in the ambient air and the qualified unoccupied basement sample. The detections of methylene chloride in IA ranged from estimated concentrations of 1.2 to 3.3 $\mu g/m^3$ in the samples collected from the ground level locations. The concentrations of methylene chloride in IA were higher than in the ambient air sample and the qualified unoccupied basement sample.

LA Fitness underwent extensive renovation activities during the winter 2019-2020. This included new flooring and walls that employed the application of various adhesives, finishes and paints. The results of some of the air sample analysis may include traces of these construction-related products. These may include chemicals such as methylene chloride, acetone, 2-propanol (aka: isopropyl alcohol), 2-butanone (aka: MEK), toluene, and xylenes which were detected in the IA samples at concentrations greater than the accompanying ambient air sample results. Products were observed in the building that contained some of these substances (see product inventory form included in **Appendix B**). Acetone, chloroform and total xylenes in 2 of the 10 sampling locations were higher than typical background levels found in most homes and businesses.

A sample was collected from the unoccupied basement, which is a restricted access area, by attaching a section of new plastic tubing to the flow controller and lowering the end of the tubing three feet through a hole in the steel plate that is placed over the stairwell to the basement. A construction crew was working in the building while this sample was being collected. While the 8-hour sample was in the process of being collected, a construction worker moved the sample canister causing the tube to be pulled out of the basement. Upon discovery of this, the field tech immediately placed the sample collection tube back in the basement and allowed the canister to continue filling. The field tech estimated that the canister had been moved for up to 2 hours of the 8 hour collection period. Therefore, the results from this sample are flagged with an "R" indicating that the results are rejected as indicative of basement air conditions. Due to Covid 19 related restrictions, we were not able to return to the site and resample this location during the winter heating season.

SECTION 5
CONCLUSIONS AND RECOMMENDATIONS

The purpose of the 2020 IA sampling at the LA Fitness Building was to 1) assess the effectiveness of the passive venting system in reducing VOC concentrations in the unused partial basement; and 2) evaluate the potential for VI into IA within the remaining areas of the building that are not under active mitigation.

The LA Fitness SSDS has been installed and is now operating consistent with the NYSDEC-approved design. Routine quarterly differential pressure monitoring indicates a differential pressure of at least -0.004 inches of water column is being maintained under the concrete floor slab throughout the northwest portion area identified as requiring mitigation, and the performance is reported to the NYSDEC on a quarterly basis. Prior to the construction of the LA Fitness SSDS, an inspection of the LA Fitness facility was conducted to identify any potential infiltration points between the floor slab and the indoor environment. There were no potential infiltration points identified.

Key conclusions of the 2020 VI sampling are as follows:

1. PCE and TCE results from the indoor air samples were below the NYSDOH Indoor Air Matrices and Air Guideline values;

2. The passive venting system continues to operate. However, since the sample collection procedure was interrupted by the actions of the construction crew at the site, reliable data was not obtained to comment on the air quality in the unoccupied and restricted access partial basement below the building;

3. Methylene chloride was detected in all IA samples. However, this compound was suspected to be the result of recent construction; and

4. LA Fitness underwent extensive renovation activities during the winter 2019-2020. This included the application of various adhesives, finishes, and paints. The results of some of the air sample analysis may include traces of some of the components of these construction related products. These include chemicals such as acetone, 2-propanol (aka: isopropyl alcohol), 2-butanone (aka: MEK), toluene, and xylenes which were detected in the indoor air samples at concentrations greater than the accompanying ambient air sample results.

5. Annual indoor air sampling in areas of LA Fitness building not mitigated by the active SSDS should continue in order to confirm that exposures are not occurring in the building.

Based upon the results of the 2020 IA sampling and performance of the LA Fitness active SSDS, it is recommended that the LA Fitness annual IA sampling should continue for the 2020/2021 heating season in areas not mitigated by the active SSDS to confirm that exposures are not occurring in the other parts of the building not influenced by the current SSDS. If, after completion of the 2020/2021 heating season sampling, IA concentrations remain below criteria, reduction or elimination of future IA sampling will be evaluated.

SECTION 6
REFERENCES

AMEC, 2020 Vapor Intrusion Monitoring Work Plan 2019-2020 Annual Monitoring, Former Unisys Facility - LA Fitness Building, New York (NYSDEC Site ID# 130045), January.

_____, 2019 LA Fitness Northwest Portion Sub-Slab Depressurization System Commissioning Technical Memorandum, Former Unisys Facility – Great Neck, Lake Success, New York (NYSDEC Site ID# 130045), April.

_____, 2019 Final Sub-Slab Vapor, Indoor Air and Vapor Intrusion Monitoring Work Plan 2019, Former Unisys Facility – Great Neck, Lake Success, New York (NYSDEC Site ID# 130045), February.

_____, 2018 LA Fitness (Northwest Portion) Sub-Slab Depressurization System Design, Former Unisys Facility, Lake Success, New York, NYSDEC Site ID #130045, December.

ARCADIS. 2008. Vapor Intrusion Sampling Report and Sampling Work Plan. Former Unisys Corporation, Great Neck, New York, NYSDEC Site No. 130045. December.

New York State Department of Environmental Conservation (NYSDEC), 2010 DER-10, Technical Guidance for Site Investigation and Remediation, Division of Environmental Remediation, May.

New York State Department of Health (NYSDOH), 2006 Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October.

_____, 2017 Updates to Soil Vapor/Indoor Air Decision Matrices, May.

Tetra Tech, 2017 Additional Soil Vapor and Vapor Intrusion Monitoring Point Installation and Vapor Monitoring Work Plan, Former Unisys Facility, Lake Success, New York, September.

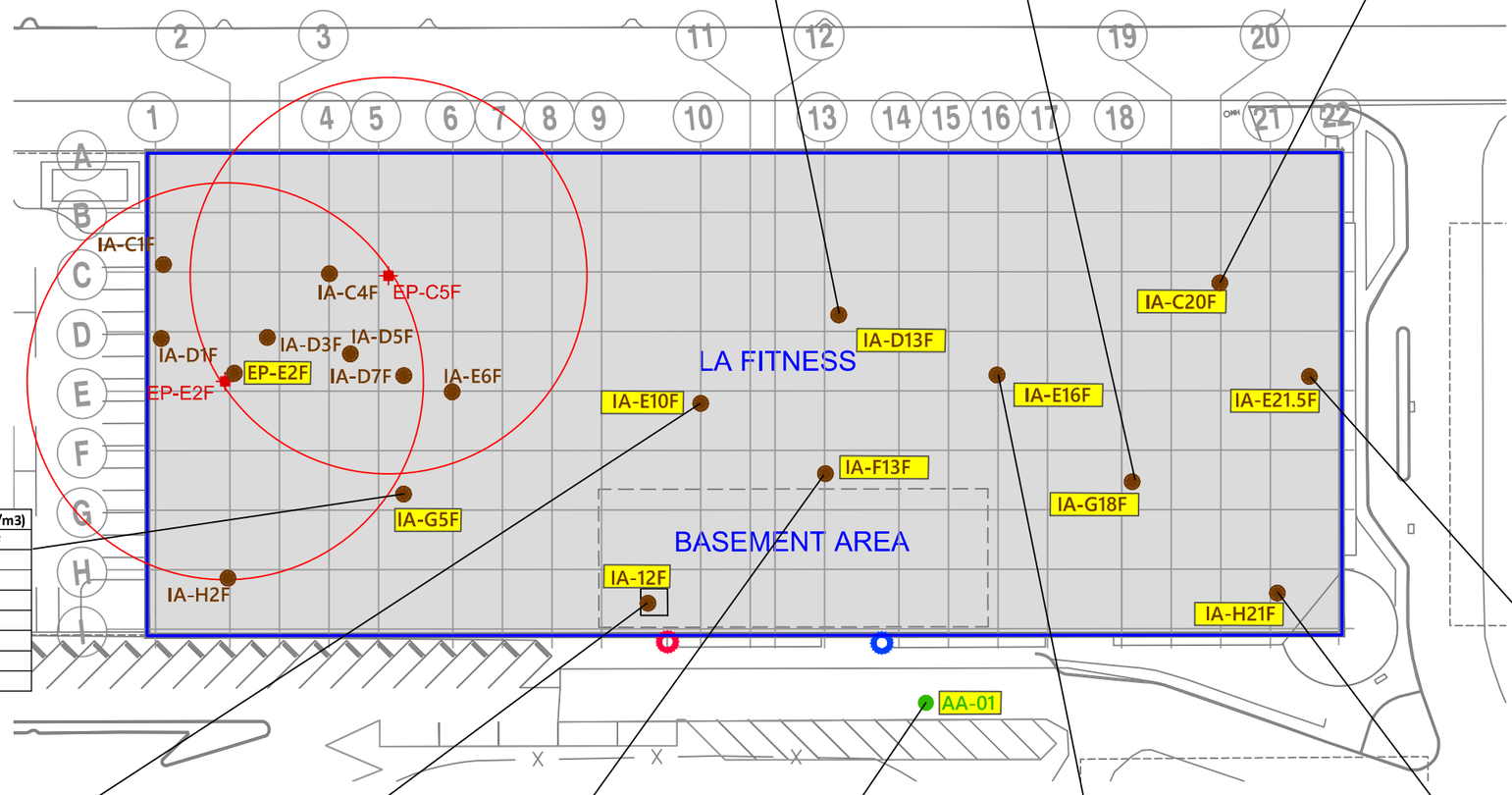
FIGURES

Figure 1 2020 Indoor and Ambient Air VI Sampling Results-LA Fitness

Analyte	Result (ug/m3) IA-D13F
1,1,1-Trichloroethane	0.92 U
1,1-Dichloroethene	0.19 U
Carbon tetrachloride	0.38
cis-1,2-Dichloroethene	0.19 U
Methylene chloride	1.4
Tetrachloroethene	0.2 J
Trichloroethene	0.19 U

Analyte	Result (ug/m3) IA-G18F
1,1,1-Trichloroethane	0.96 U
1,1-Dichloroethene	0.19 U
Carbon tetrachloride	0.39
cis-1,2-Dichloroethene	0.19 U
Methylene chloride	2.5
Tetrachloroethene	0.53 J
Trichloroethene	0.44

Analyte	Result (ug/m3) IA-C20F
1,1,1-Trichloroethane	0.99 U
1,1-Dichloroethene	0.2 U
Carbon tetrachloride	0.38
cis-1,2-Dichloroethene	0.2 U
Methylene chloride	1.5
Tetrachloroethene	0.24 J
Trichloroethene	0.2 U



Analyte	Result (ug/m3) IA-G5F
1,1,1-Trichloroethane	0.99 U
1,1-Dichloroethene	0.2 U
Carbon tetrachloride	0.34
cis-1,2-Dichloroethene	0.2 U
Methylene chloride	2.1
Tetrachloroethene	0.22 J
Trichloroethene	0.2 U

Analyte	Result (ug/m3) IA-E21.5F
1,1,1-Trichloroethane	0.99 U
1,1-Dichloroethene	0.2 U
Carbon tetrachloride	0.38
cis-1,2-Dichloroethene	0.2 U
Methylene chloride	1.2
Tetrachloroethene	0.17 J
Trichloroethene	0.2 U

Analyte	Result (ug/m3) IA-E10F
1,1,1-Trichloroethane	0.98 U
1,1-Dichloroethene	0.2 U
Carbon tetrachloride	0.37
cis-1,2-Dichloroethene	0.2 U
Methylene chloride	2.7
Tetrachloroethene	0.35 J
Trichloroethene	0.3

Analyte	Result (ug/m3) IA-12F
1,1,1-Trichloroethane	0.97 U
1,1-Dichloroethene	0.2 U
Carbon tetrachloride	0.4
cis-1,2-Dichloroethene	0.2 U
Methylene chloride	1
Tetrachloroethene	6.6
Trichloroethene	0.58

Analyte	Result (ug/m3) IA-F13F
1,1,1-Trichloroethane	1 U
1,1-Dichloroethene	0.21 U
Carbon tetrachloride	0.37
cis-1,2-Dichloroethene	0.21 U
Methylene chloride	3.2
Tetrachloroethene	0.21 J
Trichloroethene	0.21 U

Analyte	Result (ug/m3) AA-01
1,1,1-Trichloroethane	1 U
1,1-Dichloroethene	0.21 U
Carbon tetrachloride	0.38
cis-1,2-Dichloroethene	0.21 U
Methylene chloride	0.49 J
Tetrachloroethene	0.34 J
Trichloroethene	0.26 U

Analyte	Result (ug/m3) IA-E16F
1,1,1-Trichloroethane	0.99 U
1,1-Dichloroethene	0.2 U
Carbon tetrachloride	0.38
cis-1,2-Dichloroethene	0.2 U
Methylene chloride	1.6
Tetrachloroethene	0.22 J
Trichloroethene	0.2 U

Analyte	Result (ug/m3) IA-H21F
1,1,1-Trichloroethane	0.97 U
1,1-Dichloroethene	0.2 U
Carbon tetrachloride	0.39
cis-1,2-Dichloroethene	0.2 U
Methylene chloride	1.4
Tetrachloroethene	0.23 J
Trichloroethene	0.2 U

LEGEND

- IA-H21F — INDOOR AIR SAMPLE LOCATION
- EP-C5F — ACTIVE EXTRACTION POINT
- 80 - FOOT RADIUS OF INFLUENCE
- PASSIVE VENT EXHAUST
- PASSIVE VENT INLET
- AA-01 — AMBIENT AIR SAMPLE LOCATION
- DENOTES LOCATIONS SAMPLED IN 2020

NOTES:

1. SUB-SLAB MONITORING POINTS SS-A5F AND SS-G5F-R WERE INSTALLED MARCH 8, 2019. SS-G5F-R REPLACES FORMER SS-G5F WHICH IS CLOSED. SAMPLE SS-G5 WAS COLLECTED FROM LOCATION SS-G5F-R.
2. U = NOT DETECTED AT THE REPORTED DETECTION LIMIT.
   J = ESTIMATED VALUE.

0 60 120
SCALE IN FEET

TITLE: **2020 INDOOR AND AMBIENT AIR VI SAMPLING RESULTS LA FITNESS**

LOCATION: **Former UNISYS Facility Lake Success, New York**

amec

APPROVED	EAW	FIGURE
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FILE NAME: C:\Users\branko.tomic\OneDrive - Wood PLC\Projects\Lockheed\Great Neck\LA Fitness SSDS\SV Monitoring Work Plan\Figures\Figure 1 - 2020 VI SAMPLING RESULTS LA Fitness.dwg PLOT DATE: Wed, 29 Apr 2020 PLOT TIME: 7:34 AM

TABLES

Table 1 Summary of Indoor Air Samples for the LA Fitness Facility
Table 2 March 2020 - LA Fitness Indoor Air Sampling Results

TABLE 1

Summary of Sub-Slab Vapor and Indoor Air Samples for the LA Fitness Facility
Former Unisys Facility, Lake Success, New York

Location	Sample Type and Sample ID		
	Indoor Air	Duplicate	Ambient
IA-G5F	IA-G5	IA-DUP-1	
IA-E10F	IA-E10		
IA-D13F	IA-D13		
IA-F13F	IA-F13	IA-DUP-2	
IA-E16F	IA-E16		
IA-G18F	IA-G18		
IA-C20F	IA-C20		
IA-E21.5F	IA-E21.5		
IA-H21F	IA-H21		
IA-12F	IA-12		
AA			AA-01
NUMBER OF SAMPLES	**10**	**2**	**1**
TOTAL NUMBER OF SAMPLES			**13**

Prepared by: EMP
Approved by: EAW

TABLE 2

March 2020 - LA Fitness Indoor Air Sampling Results

Former Unisys Facility, Lake Success, New York

Sample ID				**AA-01**				**IA-12**				**IA-C20**				**IA-D13**				**IA-E10**				**IA-E16**				**IA-E21.5**			
Lab Sample ID				P2001566-011				P2001566-010				P2001566-007				P2001566-003				P2001566-002				P2001566-005				P2001566-008			
Sampling Date				3/17/2020				3/17/2020				3/17/2020				3/17/2020				3/17/2020				3/17/2020				3/17/2020			
Matrix				AIR				AIR				AIR				AIR				AIR				AIR				AIR			
Dilution Factor				1.89				1.79				1.84				1.71				1.82				1.83				1.84			
Unit				UG/M3				UG/M3				UG/M3				UG/M3				UG/M3				UG/M3				UG/M3			
AIR - GC/MS VOA-TO-15-UG/M3	Result	Q	MDL	MRL	Result	Q	MDL	MRL	Result	Q	MDL	MRL	Result	Q	MDL	MRL	Result	Q	MDL	MRL	Result	Q	MDL	MRL	Result	Q	MDL	MRL	Result	Q	MDL	MRL
AIR BY TO-15																																
1,1,1-Trichloroethane	1	U	0.12	1	0.97	UR	0.12	0.97	0.99	U	0.12	0.99	0.92	U	0.11	0.92	0.98	U	0.12	0.98	0.99	U	0.12	0.99	0.99	U	0.12	0.99				
1,1,2,2-Tetrachloroethane	1	U	0.14	1	0.97	UR	0.13	0.97	0.99	U	0.14	0.99	0.92	U	0.13	0.92	0.98	U	0.13	0.98	0.99	U	0.14	0.99	0.99	U	0.14	0.99				
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.49	J	0.14	1	0.47	JR	0.14	0.97	0.47	J	0.14	0.99	0.45	J	0.13	0.92	0.49	J	0.14	0.98	0.48	J	0.14	0.99	0.53	J	0.14	0.99				
1,1,2-Trichloroethane	1	U	0.1	1	0.97	UR	0.097	0.97	0.99	U	0.099	0.99	0.92	U	0.092	0.92	0.98	U	0.098	0.98	0.99	U	0.099	0.99	0.99	U	0.099	0.99				
1,1-Dichloroethane	1	U	0.15	1	0.98	UR	0.14	0.98	1	U	0.14	1	0.94	U	0.13	0.94	1	U	0.14	1	1	U	0.14	1	1	U	0.14	1				
1,1-Dichloroethene	0.21	U	0.14	0.21	0.2	UR	0.13	0.2	0.2	U	0.14	0.2	0.19	U	0.13	0.19	0.2	U	0.13	0.2	0.2	U	0.14	0.2	0.2	U	0.14	0.2				
1,2,4-Trichlorobenzene	1	U	0.25	1	0.97	UR	0.23	0.97	0.99	U	0.24	0.99	0.92	U	0.22	0.92	0.98	U	0.24	0.98	0.99	U	0.24	0.99	0.99	U	0.24	0.99				
1,2,4-Trimethylbenzene	0.24	J	0.14	1	0.56	JR	0.13	0.97	1.9		0.14	0.99	1.7		0.13	0.92	1.3		0.13	0.98	1.2		0.14	0.99	2.2		0.14	0.99				
1,2-Dibromo-3-chloropropane	1	U	0.19	1	0.95	UR	0.18	0.95	0.98	U	0.18	0.98	0.91	U	0.17	0.91	0.96	U	0.18	0.96	0.97	U	0.18	0.97	0.98	U	0.18	0.98				
1,2-Dibromoethane	1	U	0.12	1	0.97	UR	0.11	0.97	0.99	U	0.11	0.99	0.92	U	0.11	0.92	0.98	U	0.11	0.98	0.99	U	0.11	0.99	0.99	U	0.11	0.99				
1,2-Dichloro-1,1,2,2-tetrafluoroethane	1	U	0.16	1	0.95	UR	0.15	0.95	0.98	U	0.15	0.98	0.91	U	0.14	0.91	0.96	U	0.15	0.96	0.97	U	0.15	0.97	0.98	U	0.15	0.98				
1,2-Dichlorobenzene	1	U	0.15	1	0.97	UR	0.14	0.97	0.99	U	0.15	0.99	0.92	U	0.14	0.92	0.98	U	0.14	0.98	0.99	U	0.14	0.99	0.99	U	0.15	0.99				
1,2-Dichloroethane	1	U	0.11	1	0.97	UR	0.11	0.97	0.99	U	0.11	0.99	0.92	U	0.1	0.92	0.98	U	0.11	0.98	0.99	U	0.11	0.99	0.99	U	0.11	0.99				
1,2-Dichloroethene (total)	1	U	0.14	1	0.97	UR	0.13	0.97	0.99	U	0.14	0.99	0.92	U	0.13	0.92	0.98	U	0.14	0.98	0.99	U	0.14	0.99	0.99	U	0.14	0.99				
1,2-Dichloropropane	1	U	0.12	1	0.97	UR	0.12	0.97	0.99	U	0.12	0.99	0.92	U	0.11	0.92	0.98	U	0.12	0.98	0.99	U	0.12	0.99	0.99	U	0.12	0.99				
1,3,5-Trimethylbenzene	1	U	0.15	1	0.16	JR	0.14	0.95	0.61	J	0.14	0.98	0.56	J	0.13	0.91	0.41	J	0.14	0.96	0.4	J	0.14	0.97	0.78	J	0.14	0.98				
1,3-Butadiene	1	U	0.17	1	0.9	JR	0.16	0.95	0.98	U	0.16	0.98	0.91	U	0.15	0.91	0.96	U	0.16	0.96	0.97	U	0.16	0.97	0.98	U	0.16	0.98				
1,3-Dichlorobenzene	1	U	0.15	1	0.97	UR	0.14	0.97	0.99	U	0.15	0.99	0.92	U	0.14	0.92	0.98	U	0.15	0.98	0.99	U	0.15	0.99	0.99	U	0.15	0.99				
1,4-Dichlorobenzene	1	U	0.15	1	0.97	UR	0.15	0.97	0.99	U	0.15	0.99	0.92	U	0.14	0.92	0.98	U	0.15	0.98	0.99	U	0.15	0.99	0.99	U	0.15	0.99				
1,4-Dioxane	1	U	0.12	1	0.15	JR	0.11	0.97	0.99	U	0.12	0.99	0.92	U	0.11	0.92	0.98	U	0.11	0.98	0.99	U	0.12	0.99	0.99	U	0.12	0.99				
2-Butanone	0.66	J	0.21	2.1	9.4	R	0.2	2	4.2		0.2	2	4.5		0.19	1.9	3.1		0.2	2	3.3		0.2	2	11		0.2	2				
2-Hexanone	1	U	0.12	1	1.9	R	0.12	0.97	0.99	U	0.12	0.99	0.37	J	0.11	0.92	0.98	U	0.12	0.98	0.99	U	0.12	0.99	0.99	U	0.12	0.99				
2-Propanol	2	J	0.42	4	24	R	0.39	3.8	20		0.4	3.9	20		0.38	3.6	18		0.4	3.8	19		0.4	3.8	32		0.4	3.9				
4-Ethyltoluene	1	U	0.16	1	0.18	JR	0.15	0.97	0.41	J	0.16	0.99	0.28	J	0.15	0.92	0.27	J	0.15	0.98	0.24	J	0.16	0.99	0.66	J	0.16	0.99				
4-Methyl-2-pentanone	1	U	0.14	1	0.16	JR	0.13	0.95	0.45	J	0.13	0.98	0.48	J	0.12	0.91	0.35	J	0.13	0.96	0.34	J	0.13	0.97	0.95	J	0.13	0.98				
Acetic acid, methyl ester	0.95	U	0.45	0.95	1.7	R	0.43	0.9	4.6		0.44	0.92	4.2		0.41	0.86	4		0.44	0.91	4.2		0.44	0.92	4.9		0.44	0.92				
Acetone	5.9	J	2.3	10	720	R	21	95	97		2.2	9.8	89		2.1	9.1	74		2.2	9.6	88		2.2	9.7	56		2.2	9.8				
Allyl chloride	1	U	0.14	1	0.97	UR	0.13	0.97	0.99	U	0.13	0.99	0.92	U	0.12	0.92	0.98	U	0.13	0.98	0.99	U	0.13	0.99	0.99	U	0.13	0.99				
Benzene	0.54	J	0.15	1	0.39	JR	0.14	0.95	0.69	J	0.14	0.98	0.64	J	0.13	0.91	0.64	J	0.14	0.96	0.85	J	0.14	0.97	2.8		0.14	0.98				
Bromodichloromethane	1	U	0.15	1	0.44	JR	0.14	0.97	0.99	U	0.14	0.99	0.92	U	0.13	0.92	0.98	U	0.14	0.98	0.99	U	0.14	0.99	0.99	U	0.14	0.99				
Bromoform	1	U	0.21	1	0.97	UR	0.2	0.97	0.99	U	0.2	0.99	0.92	U	0.19	0.92	0.98	U	0.2	0.98	0.99	U	0.2	0.99	0.99	U	0.2	0.99				
Bromomethane	1	U	0.14	1	0.97	UR	0.13	0.97	0.99	U	0.14	0.99	0.92	U	0.13	0.92	0.98	U	0.13	0.98	0.99	U	0.14	0.99	0.99	U	0.14	0.99				
Carbon disulfide	2.1	U	0.3	2.1	2	UR	0.29	2	2	U	0.29	2	0.88	J	0.27	1.9	2	U	0.29	2	2	U	0.29	2	0.36	J	0.29	2				
Carbon tetrachloride	0.38		0.14	0.19	0.4	R	0.13	0.18	0.38		0.14	0.18	0.38		0.13	0.17	0.37		0.13	0.18	0.38		0.14	0.18	0.38		0.14	0.18				
Chlorobenzene	1	U	0.13	1	0.97	UR	0.13	0.97	0.99	U	0.13	0.99	0.92	U	0.12	0.92	0.98	U	0.13	0.98	0.99	U	0.13	0.99	0.99	U	0.13	0.99				
Chlorodifluoromethane	0.75	J	0.47	0.95	0.74	JR	0.45	0.9	2.1		0.46	0.92	1.8		0.43	0.86	1.7		0.46	0.91	1.9		0.46	0.92	1.6		0.46	0.92				
Chloroethane	1	U	0.12	1	0.97	UR	0.12	0.97	0.99	U	0.12	0.99	0.92	U	0.11	0.92	0.98	U	0.12	0.98	0.99	U	0.12	0.99	0.99	U	0.12	0.99				
Chloroform	1	U	0.13	1	43	R	0.13	0.97	0.44	J	0.13	0.99	0.4	J	0.12	0.92	0.41	J	0.13	0.98	0.39	J	0.13	0.99	0.79	J	0.13	0.99				
Chloromethane	0.34	J	0.16	1	0.19	JR	0.15	0.95	0.31	J	0.16	0.98	0.31	J	0.15	0.91	0.3	J	0.16	0.96	0.28	J	0.16	0.97	0.3	J	0.16	0.98				
cis-1,2-Dichloroethene	0.21	U	0.14	0.21	0.2	UR	0.13	0.2	0.2	U	0.14	0.2	0.19	U	0.13	0.19	0.2	U	0.14	0.2	0.2	U	0.14	0.2	0.2	U	0.14	0.2				
cis-1,3-Dichloropropene	0.98	U	0.16	0.98	0.93	UR	0.15	0.93	0.96	U	0.15	0.96	0.89	U	0.14	0.89	0.95	U	0.15	0.95	0.95	U	0.15	0.95	0.96	U	0.15	0.96				
Cyclohexane	2.1	U	0.28	2.1	2	UR	0.27	2	0.43	J	0.28	2	0.4	J	0.26	1.9	0.41	J	0.27	2	0.36	J	0.27	2	3.9		0.28	2				
Dibromochloromethane	1	U	0.13	1	0.97	UR	0.13	0.97	0.99	U	0.13	0.99	0.92	U	0.12	0.92	0.98	U	0.13	0.98	0.99	U	0.13	0.99	0.99	U	0.13	0.99				
Dichlorodifluoromethane	2.8		0.16	1	2.5	R	0.16	0.95	2.8		0.16	0.98	2.6		0.15	0.91	2.6		0.16	0.96	2.6		0.16	0.97	2.5		0.16	0.98				
Difluoroethane	0.95	U	0.49	0.95	0.51	JR	0.47	0.9	0.92	U	0.48	0.92	0.86	U	0.44	0.86	0.91	U	0.47	0.91	0.92	U	0.48	0.92	0.92	U	0.48	0.92				
Ethylbenzene	0.23	J	0.14	1	0.36	JR	0.13	0.97	5.9		0.14	0.99	5		0.13	0.92	4.2		0.14	0.98	5.4		0.14	0.99	3.6		0.14	0.99				
Freon 115	0.95	U	0.43	0.95	0.9	UR	0.41	0.9	0.92	U	0.42	0.92	0.86	U	0.39	0.86	0.91	U	0.42	0.91	0.92	U	0.42	0.92	0.92	U	0.42	0.92				
Freon 123	0.95	U	0.45	0.95	0.9	UR	0.43	0.9	0.92	U	0.44	0.92	0.86	U	0.41	0.86	0.91	U	0.44	0.91	0.92	U	0.44	0.92	0.92	U	0.44	0.92				
Hexachlorobutadiene	1	U	0.21	1	0.95	UR	0.2	0.95	0.98	U	0.2	0.98	0.91	U	0.19	0.91	0.96	U	0.2	0.96	0.97	U	0.2	0.97	0.98	U	0.2	0.98				
Hexane	0.35	J	0.21	1	0.97	UR	0.2	0.97	1.2		0.2	0.99	1		0.19	0.92	1.1		0.2	0.98	0.99		0.2	0.99	14		0.2	0.99				
Isopropylbenzene	1	U	0.15	1	0.97	UR	0.14	0.97	0.25	J	0.14	0.99	0.16	J	0.13	0.92	0.98	U	0.14	0.98	0.15	J	0.14	0.99	0.22	J	0.14	0.99				
Methyl cyclohexane	0.95	U	0.49	0.95	0.9	UR	0.47	0.9	0.92	U	0.48	0.92	0.86	U	0.44	0.86	0.91	U	0.47	0.91	0.92	U	0.48	0.92	3.6		0.48	0.92				
Methyl Tertbutyl Ether	1	U	0.12	1	0.97	UR	0.11	0.97	0.99	U	0.12	0.99	0.92	U	0.11	0.92	0.98	U	0.11	0.98	0.99	U	0.12	0.99	0.99	U	0.12	0.99				
Methylene chloride	0.49	J	0.28	1	1	R	0.27	0.95	1.5		0.28	0.98	1.4		0.26	0.91	2.7		0.27	0.96	1.6		0.27	0.97	1.2		0.28	0.98				
Styrene	1	U	0.16	1	0.95	UR	0.15	0.95	0.83	J	0.16	0.98	0.32	J	0.15	0.91	0.45	J	0.16	0.96	0.73	J	0.16	0.97	1.6		0.16	0.98				
Tetrachloroethene	0.34	J	0.13	0.98	6.6	R	0.12	0.93	0.24	J	0.13	0.96	0.2	J	0.12	0.89	0.35	J	0.13	0.95	0.22	J	0.13	0.95	0.17	J	0.13	0.96				
Toluene	1.4		0.12	1	1.1	R	0.12	0.97	4.4		0.12	0.99	2.7		0.11	0.92	2.8		0.12	0.98	2.7		0.12	0.99	8.6		0.12	0.99				
trans-1,2-Dichloroethene	1	U	0.14	1	0.97	UR	0.13	0.97	0.99	U	0.14	0.99	0.92	U	0.13	0.92	0.98	U	0.13	0.98	0.99	U	0.14	0.99	0.99	U	0.14	0.99				

TABLE 2

March 2020 - LA Fitness Indoor Air Sampling Results

Former Unisys Facility, Lake Success, New York

Sample ID					**AA-01**				**IA-12**				**IA-C20**				**IA-D13**				**IA-E10**				**IA-E16**				**IA-E21.5**			
Lab Sample ID					P2001566-011				P2001566-010				P2001566-007				P2001566-003				P2001566-002				P2001566-005				P2001566-008			
Sampling Date					3/17/2020				3/17/2020				3/17/2020				3/17/2020				3/17/2020				3/17/2020				3/17/2020			
Matrix					AIR				AIR				AIR				AIR				AIR				AIR				AIR			
Dilution Factor					1.89				1.79				1.84				1.71				1.82				1.83				1.84			
Unit					UG/M3				UG/M3				UG/M3				UG/M3				UG/M3				UG/M3				UG/M3			
AIR - GC/MS VOA-TO-15-UG/M3	Result	Q	MDL	MRL	Result	Q	MDL	MRL	Result	Q	MDL	MRL	Result	Q	MDL	MRL	Result	Q	MDL	MRL	Result	Q	MDL	MRL	Result	Q	MDL	MRL	Result	Q	MDL	MRL
AIR BY TO-15																																
trans-1,3-Dichloropropene	1	U	0.21	1	0.95	UR	0.2	0.95	0.98	U	0.2	0.98	0.91	U	0.19	0.91	0.96	U	0.2	0.96	0.97	U	0.2	0.97	0.98	U	0.2	0.98				
Trichloroethene	0.26		0.14	0.21	0.58	R	0.13	0.2	0.2	U	0.13	0.2	0.19	U	0.12	0.19	0.3		0.13	0.2	0.2	U	0.13	0.2	0.2	U	0.13	0.2				
Trichlorofluoromethane	1.3		0.15	1	1.3	R	0.14	0.95	1.3		0.15	0.98	1.3		0.14	0.91	1.3		0.15	0.96	1.3		0.15	0.97	1.2		0.15	0.98				
Vinyl chloride	0.21	U	0.11	0.21	0.2	UR	0.1	0.2	0.2	U	0.1	0.2	0.19	U	0.097	0.19	0.2	U	0.1	0.2	0.2	U	0.1	0.2	0.2	U	0.1	0.2				
Xylene, o	0.29	J	0.15	1	0.52	JR	0.14	0.97	7.1		0.14	0.99	5.9		0.13	0.92	5		0.14	0.98	6.4		0.14	0.99	4.3		0.14	0.99				
Xylenes (m&p)	0.69	J	0.26	2.1	1.3	JR	0.25	2	24		0.26	2	21		0.24	1.9	17		0.25	2	22		0.26	2	13		0.26	2				

R: Data is rejected

J: Estimated value

U : Analyte was analyzed for but not detected.

Q: Qualifier

MDL: Method Detection Limit

MRL: Method Reporting Limit

TABLE 2
March 2020 - LA Fitness Indoor Air Sampling Results
Former Unisys Facility, Lake Success, New York

Sample ID					**IA-F13**				**IA-DUP-2**				**IA-G18**				**IA-G5**				**IA-DUP-1**				**IA-H21**			
Lab Sample ID					P2001566-004				P2001566-013				P2001566-006				P2001566-001				P2001566-012				P2001566-009			
Sampling Date					3/17/2020				3/17/2020				3/17/2020				3/17/2020				3/17/2020				3/17/2020			
Matrix					AIR				AIR				AIR				AIR				AIR				AIR			
Dilution Factor					1.87				1.69				1.77				1.84				1.81				1.8			
Unit					UG/M3				UG/M3				UG/M3				UG/M3				UG/M3				UG/M3			
AIR - GC/MS VOA-TO-15-UG/M3	Result	Q	MDL	MRL	Result	Q	MDL	MRL	Result	Q	MDL	MRL	Result	Q	MDL	MRL	Result	Q	MDL	MRL	Result	Q	MDL	MRL	Result	Q	MDL	MRL
AIR BY TO-15																												
1,1,1-Trichloroethane	1	U	0.12	1	0.91	U	0.11	0.91	0.96	U	0.12	0.96	0.99	U	0.12	0.99	0.98	U	0.12	0.98	0.97	U	0.12	0.97				
1,1,2,2-Tetrachloroethane	1	U	0.14	1	0.91	U	0.13	0.91	0.96	U	0.13	0.96	0.99	U	0.14	0.99	0.98	U	0.13	0.98	0.97	U	0.13	0.97				
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.48	J	0.14	1	0.48	J	0.13	0.91	0.47	J	0.13	0.96	0.45	J	0.14	0.99	0.48	J	0.14	0.98	0.47	J	0.14	0.97				
1,1,2-Trichloroethane	1	U	0.1	1	0.91	U	0.091	0.91	0.96	U	0.096	0.96	0.99	U	0.099	0.99	0.98	U	0.098	0.98	0.97	U	0.097	0.97				
1,1-Dichloroethane	1	U	0.15	1	0.93	U	0.13	0.93	0.97	U	0.14	0.97	1	U	0.14	1	1	U	0.14	1	0.99	U	0.14	0.99				
1,1-Dichloroethene	0.21	U	0.14	0.21	0.19	U	0.13	0.19	0.19	U	0.13	0.19	0.2	U	0.14	0.2	0.2	U	0.13	0.2	0.2	U	0.13	0.2				
1,2,4-Trichlorobenzene	1	U	0.24	1	0.91	U	0.22	0.91	0.96	U	0.23	0.96	0.99	U	0.24	0.99	0.98	U	0.24	0.98	0.97	U	0.23	0.97				
1,2,4-Trimethylbenzene	1.3		0.14	1	1.3		0.13	0.91	1.1		0.13	0.96	1.3		0.14	0.99	1.3		0.13	0.98	1.1		0.13	0.97				
1,2-Dibromo-3-chloropropane	0.99	U	0.19	0.99	0.9	U	0.17	0.9	0.94	U	0.18	0.94	0.98	U	0.18	0.98	0.96	U	0.18	0.96	0.95	U	0.18	0.95				
1,2-Dibromoethane	1	U	0.12	1	0.1	J	0.1	0.91	0.96	U	0.11	0.96	0.99	U	0.11	0.99	0.98	U	0.11	0.98	0.97	U	0.11	0.97				
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.99	U	0.16	0.99	0.9	U	0.14	0.9	0.94	U	0.15	0.94	0.98	U	0.15	0.98	0.96	U	0.15	0.96	0.95	U	0.15	0.95				
1,2-Dichlorobenzene	1	U	0.15	1	0.91	U	0.13	0.91	0.96	U	0.14	0.96	0.99	U	0.15	0.99	0.98	U	0.14	0.98	0.97	U	0.14	0.97				
1,2-Dichloroethane	1	U	0.11	1	0.91	U	0.1	0.91	0.96	U	0.1	0.96	0.99	U	0.11	0.99	0.98	U	0.11	0.98	0.97	U	0.11	0.97				
1,2-Dichloroethene (total)	1	U	0.14	1	0.91	U	0.13	0.91	0.96	U	0.13	0.96	0.99	U	0.14	0.99	0.98	U	0.14	0.98	0.97	U	0.14	0.97				
1,2-Dichloropropane	1	U	0.12	1	0.91	U	0.11	0.91	0.96	U	0.12	0.96	0.99	U	0.12	0.99	0.98	U	0.12	0.98	0.97	U	0.12	0.97				
1,3,5-Trimethylbenzene	0.45	J	0.14	0.99	0.41	J	0.13	0.9	0.37	J	0.14	0.94	0.45	J	0.14	0.98	0.44	J	0.14	0.96	0.38	J	0.14	0.95				
1,3-Butadiene	0.99	U	0.16	0.99	0.9	U	0.15	0.9	0.94	U	0.16	0.94	0.98	U	0.16	0.98	0.96	U	0.16	0.96	0.95	U	0.16	0.95				
1,3-Dichlorobenzene	1	U	0.15	1	0.91	U	0.14	0.91	0.96	U	0.14	0.96	0.99	U	0.15	0.99	0.98	U	0.14	0.98	0.97	U	0.14	0.97				
1,4-Dichlorobenzene	1	U	0.15	1	0.91	U	0.14	0.91	0.96	U	0.15	0.96	0.99	U	0.15	0.99	0.98	U	0.15	0.98	0.97	U	0.15	0.97				
1,4-Dioxane	1	U	0.12	1	0.91	U	0.11	0.91	0.96	U	0.11	0.96	0.99	U	0.12	0.99	0.98	U	0.11	0.98	0.97	U	0.11	0.97				
2-Butanone	4.3		0.21	2.1	3.2		0.19	1.9	3.3		0.19	1.9	3.7		0.2	2	3.4		0.2	2	3.4		0.2	2				
2-Hexanone	0.37	J	0.12	1	0.91	U	0.11	0.91	0.22	J	0.12	0.96	0.25	J	0.12	0.99	0.98	U	0.12	0.98	0.97	U	0.12	0.97				
2-Propanol	19		0.41	3.9	17		0.37	3.5	23		0.39	3.7	17		0.4	3.9	20		0.4	3.8	19		0.4	3.8				
4-Ethyltoluene	0.26	J	0.16	1	0.28	J	0.14	0.91	0.22	J	0.15	0.96	0.24	J	0.16	0.99	0.25	J	0.15	0.98	0.26	J	0.15	0.97				
4-Methyl-2-pentanone	0.42	J	0.14	0.99	0.36	J	0.12	0.9	0.36	J	0.13	0.94	0.4	J	0.13	0.98	0.38	J	0.13	0.96	0.33	J	0.13	0.95				
Acetic acid, methyl ester	4.2		0.45	0.94	4		0.41	0.85	4		0.42	0.89	4.5		0.44	0.92	4.6		0.43	0.91	4.6		0.43	0.9				
Acetone	90		2.2	9.9	83		2	9	85		2.1	9.4	78		2.2	9.8	79		2.2	9.6	89		2.2	9.5				
Allyl chloride	1	U	0.13	1	0.91	U	0.12	0.91	0.96	U	0.13	0.96	0.99	U	0.13	0.99	0.98	U	0.13	0.98	0.97	U	0.13	0.97				
Benzene	0.65	J	0.14	0.99	0.66	J	0.13	0.9	0.65	J	0.14	0.94	0.64	J	0.14	0.98	0.63	J	0.14	0.96	0.62	J	0.14	0.95				
Bromodichloromethane	1	U	0.14	1	0.91	U	0.13	0.91	0.96	U	0.14	0.96	0.99	U	0.14	0.99	0.98	U	0.14	0.98	0.97	U	0.14	0.97				
Bromoform	1	U	0.21	1	0.91	U	0.19	0.91	0.96	U	0.19	0.96	0.99	U	0.2	0.99	0.98	U	0.2	0.98	0.97	U	0.2	0.97				
Bromomethane	1	U	0.14	1	0.91	U	0.13	0.91	0.96	U	0.13	0.96	0.99	U	0.14	0.99	0.98	U	0.13	0.98	0.97	U	0.13	0.97				
Carbon disulfide	2.1	U	0.3	2.1	1.9	U	0.27	1.9	0.32	J	0.28	1.9	0.61	J	0.29	2	2	U	0.29	2	2	U	0.29	2				
Carbon tetrachloride	0.37		0.14	0.19	0.41		0.13	0.17	0.39		0.13	0.18	0.34		0.14	0.18	0.39		0.13	0.18	0.39		0.13	0.18				
Chlorobenzene	1	U	0.13	1	0.91	U	0.12	0.91	0.96	U	0.13	0.96	0.99	U	0.13	0.99	0.98	U	0.13	0.98	0.97	U	0.13	0.97				
Chlorodifluoromethane	1.8		0.47	0.94	1.7		0.42	0.85	1.6		0.44	0.89	1.9		0.46	0.92	1.9		0.45	0.91	1.9		0.45	0.9				
Chloroethane	1	U	0.12	1	0.91	U	0.11	0.91	0.96	U	0.12	0.96	0.99	U	0.12	0.99	0.98	U	0.12	0.98	0.97	U	0.12	0.97				
Chloroform	0.36	J	0.13	1	0.38	J	0.12	0.91	0.42	J	0.13	0.96	0.39	J	0.13	0.99	0.4	J	0.13	0.98	0.42	J	0.13	0.97				
Chloromethane	0.31	J	0.16	0.99	0.3	J	0.15	0.9	0.25	J	0.15	0.94	0.29	J	0.16	0.98	0.32	J	0.16	0.96	0.29	J	0.15	0.95				
cis-1,2-Dichloroethene	0.21	U	0.14	0.21	0.19	U	0.13	0.19	0.19	U	0.13	0.19	0.2	U	0.14	0.2	0.2	U	0.14	0.2	0.2	U	0.14	0.2				
cis-1,3-Dichloropropene	0.97	U	0.16	0.97	0.88	U	0.14	0.88	0.92	U	0.15	0.92	0.96	U	0.15	0.96	0.94	U	0.15	0.94	0.94	U	0.15	0.94				
Cyclohexane	0.4	J	0.28	2.1	0.39	J	0.25	1.9	0.36	J	0.27	1.9	0.39	J	0.28	2	0.39	J	0.27	2	0.33	J	0.27	2				
Dibromochloromethane	1	U	0.13	1	0.91	U	0.12	0.91	0.96	U	0.12	0.96	0.99	U	0.13	0.99	0.98	U	0.13	0.98	0.97	U	0.13	0.97				
Dichlorodifluoromethane	2.7		0.16	0.99	2.7		0.15	0.9	2.6		0.15	0.94	2.5		0.16	0.98	2.6		0.16	0.96	2.6		0.16	0.95				
Difluoroethane	0.94	U	0.49	0.94	0.85	U	0.44	0.85	0.89	U	0.46	0.89	0.92	U	0.48	0.92	0.91	U	0.47	0.91	0.9	U	0.47	0.9				
Ethylbenzene	5		0.14	1	4.9		0.13	0.91	4.9		0.13	0.96	4.4		0.14	0.99	4.6		0.14	0.98	5.3		0.14	0.97				
Freon 115	0.94	U	0.43	0.94	0.85	U	0.39	0.85	0.89	U	0.41	0.89	0.92	U	0.42	0.92	0.91	U	0.42	0.91	0.9	U	0.41	0.9				
Freon 123	0.94	U	0.45	0.94	0.85	U	0.41	0.85	0.89	U	0.42	0.89	0.92	U	0.44	0.92	0.91	U	0.43	0.91	0.9	U	0.43	0.9				
Hexachlorobutadiene	0.99	U	0.21	0.99	0.9	U	0.19	0.9	0.94	U	0.19	0.94	0.98	U	0.2	0.98	0.96	U	0.2	0.96	0.95	U	0.2	0.95				
Hexane	0.94	J	0.21	1	0.94		0.19	0.91	0.99		0.19	0.96	0.97	J	0.2	0.99	1		0.2	0.98	1		0.2	0.97				
Isopropylbenzene	0.15	J	0.14	1	0.14	J	0.13	0.91	0.14	J	0.14	0.96	0.99	U	0.14	0.99	0.98	U	0.14	0.98	0.15	J	0.14	0.97				
Methyl cyclohexane	0.94	U	0.49	0.94	0.44	J	0.44	0.85	0.46	J	0.46	0.89	0.92	U	0.48	0.92	0.91	U	0.47	0.91	0.9	U	0.47	0.9				
Methyl Tertbutyl Ether	1	U	0.12	1	0.91	U	0.11	0.91	0.96	U	0.11	0.96	0.99	U	0.12	0.99	0.98	U	0.11	0.98	0.97	U	0.11	0.97				
Methylene chloride	3.2		0.28	0.99	3.3		0.25	0.9	2.5		0.27	0.94	2.1		0.28	0.98	2.1		0.27	0.96	1.4		0.27	0.95				
Styrene	0.41	J	0.16	0.99	0.4	J	0.15	0.9	0.4	J	0.15	0.94	0.36	J	0.16	0.98	0.39	J	0.16	0.96	0.39	J	0.15	0.95				
Tetrachloroethene	0.21	J	0.13	0.97	0.26	J	0.12	0.88	0.53	J	0.12	0.92	0.22	J	0.13	0.96	0.21	J	0.12	0.94	0.23	J	0.12	0.94				
Toluene	2.8		0.12	1	2.4		0.11	0.91	2.5		0.12	0.96	2.7		0.12	0.99	2.4		0.12	0.98	2.5		0.12	0.97				
trans-1,2-Dichloroethene	1	U	0.14	1	0.91	U	0.13	0.91	0.96	U	0.13	0.96	0.99	U	0.14	0.99	0.98	U	0.13	0.98	0.97	U	0.13	0.97				

TABLE 2

March 2020 - LA Fitness Indoor Air Sampling Results

Former Unisys Facility, Lake Success, New York

Sample ID				**IA-F13**				**IA-DUP-2**				**IA-G18**				**IA-G5**				**IA-DUP-1**				**IA-H21**			
Lab Sample ID				P2001566-004				P2001566-013				P2001566-006				P2001566-001				P2001566-012				P2001566-009			
Sampling Date				3/17/2020				3/17/2020				3/17/2020				3/17/2020				3/17/2020				3/17/2020			
Matrix				AIR				AIR				AIR				AIR				AIR				AIR			
Dilution Factor				1.87				1.69				1.77				1.84				1.81				1.8			
Unit				UG/M3				UG/M3				UG/M3				UG/M3				UG/M3				UG/M3			
AIR - GC/MS VOA-TO-15-UG/M3	Result	Q	MDL	MRL	Result	Q	MDL	MRL	Result	Q	MDL	MRL	Result	Q	MDL	MRL	Result	Q	MDL	MRL	Result	Q	MDL	MRL
AIR BY TO-15																								
trans-1,3-Dichloropropene	0.99	U	0.21	0.99	0.9	U	0.19	0.9	0.94	U	0.19	0.94	0.98	U	0.2	0.98	0.96	U	0.2	0.96	0.95	U	0.2	0.95
Trichloroethene	0.21	U	0.13	0.21	0.19	U	0.12	0.19	0.44		0.13	0.19	0.2	U	0.13	0.2	0.2	U	0.13	0.2	0.2	U	0.13	0.2
Trichlorofluoromethane	1.3		0.15	0.99	1.3		0.14	0.9	1.3		0.14	0.94	1.2		0.15	0.98	1.3		0.15	0.96	1.3		0.15	0.95
Vinyl chloride	0.21	U	0.11	0.21	0.19	U	0.096	0.19	0.19	U	0.1	0.19	0.2	U	0.1	0.2	0.2	U	0.1	0.2	0.2	U	0.1	0.2
Xylene, o	6.1		0.14	1	5.8		0.13	0.91	5.8		0.14	0.96	5.2		0.14	0.99	5.5		0.14	0.98	6.3		0.14	0.97
Xylenes (m&p)	21		0.26	2.1	20		0.24	1.9	20		0.25	1.9	18		0.26	2	19		0.25	2	22		0.25	2

R: Data is rejected

J: Estimated value

U : Analyte was analyzed for but not detected.

Q: Qualifier

MDL: Method Detection Limit

MRL: Method Reporting Limit

APPENDICES

APPENDIX A - DATA USABILITY SUMMARY REPORT

DATA USABILITY SUMMARY REPORT
LA FITNESS MARCH 2020 SAMPLING
LOCKHEED MARTIN CORPORATION
FORMER UNISYS FACILITY -- GREAT NECK
LAKE SUCCESS, NEW YORK

1.0 INTRODUCTION

Vapor samples were collected at the Lockheed Martin Corporation Former Unisys Facility -- Great Neck Site in March of 2020 and submitted to ALS Environmental located in Simi Valley, California (ALS) for analysis. Samples were analyzed by the following method:

- Volatile Organic Compounds (VOCs) by USEPA Method TO-15

A Data Usability Summary Report (DUSR) review was completed based on the New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation guidance (NYSDEC, 2010). Sample event information included in this DUSR is presented in the following Tables:

- Table 1 – Summary of Samples and Analytical Method
- Table 2 – Summary of Analytical Results

A summary of table notes applicable to Tables 1 and 2 is presented just before Table 1.

Laboratory deliverables included:

- Category B deliverables as defined in the NYSDEC Analytical Services Protocols (NYSDEC, 2005).

The DUSR review included the following evaluations as applicable. A table of the project control limits is presented in Attachment A. Applicable laboratory QC summary forms are included in Attachment B to document QC outliers associated with qualification actions.

- Lab Report Narrative Review
- Data Package Completeness and COC records (Table 1 verification)
- Sample Preservation and Holding Times
- Instrument Calibration (report narrative/lab-qualifier evaluation)
- QC Blanks
- Laboratory Control Samples (LCS)
- Surrogate Spikes (if applicable)
- Field Duplicates
- Target Analyte Identification and Quantitation
- Raw Data (chromatograms), Calculation Checks and Transcription Verifications
- Reporting Limits
- Electronic Data Qualification and Verification

Data qualification actions are applied when necessary based on general procedures in USEPA validation guidelines (USEPA, 2016) and the judgment of the project chemist. The following laboratory qualifiers are used in the final data presentation:

U = target analyte is not detected above the reported detection limit
J = concentration is estimated

Results are interpreted to be usable as reported by the laboratory or as qualified in the following sections.

2.0 POTENTIAL DATA LIMITATIONS

Based on the DUSR review, the data meet the data quality objectives and results are to be interpreted as usable by the laboratory.

3.0 ADDITIONAL QC EXCEEDANCES AND OBSERVATIONS

During validation two sample IDs were corrected to match the COC. Details are recorded in Attachment B.

There were no other additional observations or quality control exceedances not specifically addressed above (Section 2.0).

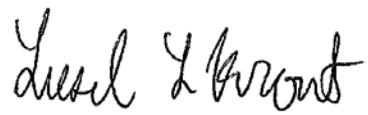
Reference:

New York State Department of Environmental Conservation (NYSDEC), 2005. "Analytical Services Protocols"; June 2005.

NYSDEC, 2010. "Technical Guidance for Site Investigation and Remediation-Appendix 2B"; DER-10; Division of Environmental Remediation; May 2010.

USEPA, 2016. “Analysis of Volatile Organic Compounds in Air Contained in Canisters by Method TO-15”; HW-31, Revision 6; Hazardous Waste Support Section; September 2016.

Data Validator: Liesel Krout April 21, 2020



Reviewed by: Julie Ricardi April 23, 2020

Standard Table Notes:

Sample Type (QC Code)

FS – field sample

FD – field duplicate

TB – trip blank

EB – equipment blank

FB – field blank

Matrix

GW – ground water

BW – blank water

TW – tap water

SV – soil vapor

SED - sediment

Units

mg/L – milligrams per liter

ng/L – nanograms per liter

µg/L – micrograms per liter

mg/kg – milligrams per kilogram

µg/kg – micrograms per kilogram

µg/m^3 – micrograms per cubic meter

Qualifiers

U – not detected above quantitation limit

J – estimated quantity

J+ - estimated quantity, biased high

J- - estimated quantity, biased low

R – data unusable

Fraction

T – total

D – dissolved

N – normal

Qualification Reason Codes

BL1 – method blank qualifier

BL2 – field or trip blank qualifier

CCV – continuing calibration verification recovery outside limits

CCV%D – continuing calibration verification percent difference exceeds goal

CCVRRF – continuing calibration relative response factor low

CI – chromatographic interference present

DCPD – dual column percent difference exceeds limit

E – result exceeds calibration range

FD – field duplicate precision goal exceeded

FP – false positive interference

HT – holding time for prep or analysis exceeded

HTG – holding time for prep or analysis grossly exceeded

ICV – initial calibration verification recovery outside limit

ICVRRF – initial calibration verification relative response factor low

ICVRSD – initial calibration verification % relative standard deviation exceeds goal

ISH – internal standard response greater than limit

ISL – internal standard response less than limit

LCSH – laboratory control sample recovery high

LCSL – laboratory control sample recovery low

LCSRPD – laboratory control sample/duplicate relative % difference precision goal exceeded

LD – lab duplicate precision goal exceeded

MSH – matrix spike and/or MS duplicate recovery high

MSL – matrix spike and/or MS duplicate recovery low

MSRPD – matrix spike/duplicate relative % difference precision goal exceeded

N – analyte identification is not certain

PEM – performance evaluation mixture exceeds limit

PM – sample percent moisture exceeds EPA guideline

SD – serial dilution result exceeds percent difference limit

SP – sample preservation/collection does not meet method requirement

SSH – surrogate recovery high

SSL – surrogate recovery low

TD – dissolved concentration exceeds total

TABLE 1 - SUMMARY OF SAMPLES AND ANALYTICAL METHODS
DATA USABILITY SUMMARY REPORT
LA FITNESS MARCH 2020 SAMPLING
LOCKHEED MARTIN CORPORATION
FORMER UNISYS FACILITY -- GREAT NECK
LAKE SUCCESS, NEW YORK

						Method Class	VOCs
						Analysis Method	EPA TO-15
SDG	**Location**	**Field Sample ID**	**Sample Date**	**Media**	**Lab Sample ID**	**QC Code**	**Count**
P2001566	AA-01	AA-01	3/17/2020	AIR	P2001566-011	FS	64
P2001566	IA-12F	IA-12	3/17/2020	AIR	P2001566-010	FS	64
P2001566	IA-C20F	IA-C20	3/17/2020	AIR	P2001566-007	FS	64
P2001566	IA-D13F	IA-D13	3/17/2020	AIR	P2001566-003	FS	64
P2001566	IA-E10F	IA-E10	3/17/2020	AIR	P2001566-002	FS	64
P2001566	IA-E16F	IA-E16	3/17/2020	AIR	P2001566-005	FS	64
P2001566	IA-E21.5F	IA-E21.5	3/17/2020	AIR	P2001566-008	FS	64
P2001566	IA-F13F	IA-DUP-2	3/17/2020	AIR	P2001566-013	FD	64
P2001566	IA-F13F	IA-F13	3/17/2020	AIR	P2001566-004	FS	64
P2001566	IA-G18F	IA-G18	3/17/2020	AIR	P2001566-006	FS	64
P2001566	IA-G5F	IA-DUP-1	3/17/2020	AIR	P2001566-012	FD	64
P2001566	IA-G5F	IA-G5	3/17/2020	AIR	P2001566-001	FS	64
P2001566	IA-H21F	IA-H21	3/17/2020	AIR	P2001566-009	FS	64

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
LA FITNESS MARCH 2020 SAMPLING
LOCKHEED MARTIN CORPORATION
FORMER UNISYS FACILITY -- GREAT NECK
LAKE SUCCESS, NEW YORK

		SDG	P2001566		P2001566		P2001566		P2001566		P2001566	
		Location	AA-01		IA-12F		IA-C20F		IA-D13F		IA-E10F	
		Sample Date	3/17/2020		3/17/2020		3/17/2020		3/17/2020		3/17/2020	
		Sample ID	AA-01		IA-12		IA-C20		IA-D13		IA-E10	
		QC Code	FS		FS		FS		FS		FS	
Method	Parameter	Unit	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
EPA TO-15	1,1,1-Trichloroethane	UG/M3	1	U	0.97	U	0.99	U	0.92	U	0.98	U
EPA TO-15	1,1,2,2-Tetrachloroethane	UG/M3	1	U	0.97	U	0.99	U	0.92	U	0.98	U
EPA TO-15	1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/M3	0.49	J	0.47	J	0.47	J	0.45	J	0.49	J
EPA TO-15	1,1,2-Trichloroethane	UG/M3	1	U	0.97	U	0.99	U	0.92	U	0.98	U
EPA TO-15	1,1-Dichloroethane	UG/M3	1	U	0.98	U	1	U	0.94	U	1	U
EPA TO-15	1,1-Dichloroethene	UG/M3	0.21	U	0.2	U	0.2	U	0.19	U	0.2	U
EPA TO-15	1,2,4-Trichlorobenzene	UG/M3	1	U	0.97	U	0.99	U	0.92	U	0.98	U
EPA TO-15	1,2,4-Trimethylbenzene	UG/M3	0.24	J	0.56	J	1.9		1.7		1.3	
EPA TO-15	1,2-Dibromo-3-chloropropane	UG/M3	1	U	0.95	U	0.98	U	0.91	U	0.96	U
EPA TO-15	1,2-Dibromoethane	UG/M3	1	U	0.97	U	0.99	U	0.92	U	0.98	U
EPA TO-15	1,2-Dichloro-1,1,2,2-tetrafluoroethane	UG/M3	1	U	0.95	U	0.98	U	0.91	U	0.96	U
EPA TO-15	1,2-Dichlorobenzene	UG/M3	1	U	0.97	U	0.99	U	0.92	U	0.98	U
EPA TO-15	1,2-Dichloroethane	UG/M3	1	U	0.97	U	0.99	U	0.92	U	0.98	U
EPA TO-15	1,2-Dichloroethene (total)	UG/M3	1	U	0.97	U	0.99	U	0.92	U	0.98	U
EPA TO-15	1,2-Dichloropropane	UG/M3	1	U	0.97	U	0.99	U	0.92	U	0.98	U
EPA TO-15	1,3,5-Trimethylbenzene	UG/M3	1	U	0.16	J	0.61	J	0.56	J	0.41	J
EPA TO-15	1,3-Butadiene	UG/M3	1	U	0.9	J	0.98	U	0.91	U	0.96	U
EPA TO-15	1,3-Dichlorobenzene	UG/M3	1	U	0.97	U	0.99	U	0.92	U	0.98	U
EPA TO-15	1,4-Dichlorobenzene	UG/M3	1	U	0.97	U	0.99	U	0.92	U	0.98	U
EPA TO-15	1,4-Dioxane	UG/M3	1	U	0.15	J	0.99	U	0.92	U	0.98	U
EPA TO-15	2-Butanone	UG/M3	0.66	J	9.4		4.2		4.5		3.1	
EPA TO-15	2-Hexanone	UG/M3	1	U	1.9		0.99	U	0.37	J	0.98	U
EPA TO-15	2-Propanol	UG/M3	2	J	24		20		20		18	
EPA TO-15	4-Ethyltoluene	UG/M3	1	U	0.18	J	0.41	J	0.28	J	0.27	J

Created by: WCG 04/22/2020
Checked by: LLK 04/22/2020

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
LA FITNESS MARCH 2020 SAMPLING
LOCKHEED MARTIN CORPORATION
FORMER UNISYS FACILITY -- GREAT NECK
LAKE SUCCESS, NEW YORK

		SDG	P2001566		P2001566		P2001566		P2001566		P2001566	
		Location	AA-01		IA-12F		IA-C20F		IA-D13F		IA-E10F	
		Sample Date	3/17/2020		3/17/2020		3/17/2020		3/17/2020		3/17/2020	
		Sample ID	AA-01		IA-12		IA-C20		IA-D13		IA-E10	
		QC Code	FS		FS		FS		FS		FS	
Method	Parameter	Unit	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
EPA TO-15	4-Methyl-2-pentanone	UG/M3	1	U	0.16	J	0.45	J	0.48	J	0.35	J
EPA TO-15	Acetic acid, methyl ester	UG/M3	0.95	U	1.7		4.6		4.2		4	
EPA TO-15	Acetone	UG/M3	5.9	J	720		97		89		74	
EPA TO-15	Allyl chloride	UG/M3	1	U	0.97	U	0.99	U	0.92	U	0.98	U
EPA TO-15	Benzene	UG/M3	0.54	J	0.39	J	0.69	J	0.64	J	0.64	J
EPA TO-15	Bromodichloromethane	UG/M3	1	U	0.44	J	0.99	U	0.92	U	0.98	U
EPA TO-15	Bromoform	UG/M3	1	U	0.97	U	0.99	U	0.92	U	0.98	U
EPA TO-15	Bromomethane	UG/M3	1	U	0.97	U	0.99	U	0.92	U	0.98	U
EPA TO-15	Carbon disulfide	UG/M3	2.1	U	2	U	2	U	0.88	J	2	U
EPA TO-15	Carbon tetrachloride	UG/M3	0.38		0.4		0.38		0.38		0.37	
EPA TO-15	Chlorobenzene	UG/M3	1	U	0.97	U	0.99	U	0.92	U	0.98	U
EPA TO-15	Chlorodifluoromethane	UG/M3	0.75	J	0.74	J	2.1		1.8		1.7	
EPA TO-15	Chloroethane	UG/M3	1	U	0.97	U	0.99	U	0.92	U	0.98	U
EPA TO-15	Chloroform	UG/M3	1	U	43		0.44	J	0.4	J	0.41	J
EPA TO-15	Chloromethane	UG/M3	0.34	J	0.19	J	0.31	J	0.31	J	0.3	J
EPA TO-15	cis-1,2-Dichloroethene	UG/M3	0.21	U	0.2	U	0.2	U	0.19	U	0.2	U
EPA TO-15	cis-1,3-Dichloropropene	UG/M3	0.98	U	0.93	U	0.96	U	0.89	U	0.95	U
EPA TO-15	Cyclohexane	UG/M3	2.1	U	2	U	0.43	J	0.4	J	0.41	J
EPA TO-15	Dibromochloromethane	UG/M3	1	U	0.97	U	0.99	U	0.92	U	0.98	U
EPA TO-15	Dichlorodifluoromethane	UG/M3	2.8		2.5		2.8		2.6		2.6	
EPA TO-15	Difluoroethane	UG/M3	0.95	U	0.51	J	0.92	U	0.86	U	0.91	U
EPA TO-15	Ethylbenzene	UG/M3	0.23	J	0.36	J	5.9		5		4.2	
EPA TO-15	Freon 115	UG/M3	0.95	U	0.9	U	0.92	U	0.86	U	0.91	U
EPA TO-15	Freon 123	UG/M3	0.95	U	0.9	U	0.92	U	0.86	U	0.91	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
LA FITNESS MARCH 2020 SAMPLING
LOCKHEED MARTIN CORPORATION
FORMER UNISYS FACILITY -- GREAT NECK
LAKE SUCCESS, NEW YORK

		SDG	P2001566		P2001566		P2001566		P2001566		P2001566	
		Location	AA-01		IA-12F		IA-C20F		IA-D13F		IA-E10F	
		Sample Date	3/17/2020		3/17/2020		3/17/2020		3/17/2020		3/17/2020	
		Sample ID	AA-01		IA-12		IA-C20		IA-D13		IA-E10	
		QC Code	FS		FS		FS		FS		FS	
Method	Parameter	Unit	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
EPA TO-15	Hexachlorobutadiene	UG/M3	1	U	0.95	U	0.98	U	0.91	U	0.96	U
EPA TO-15	Hexane	UG/M3	0.35	J	0.97	U	1.2		1		1.1	
EPA TO-15	Isopropylbenzene	UG/M3	1	U	0.97	U	0.25	J	0.16	J	0.98	U
EPA TO-15	Methyl cyclohexane	UG/M3	0.95	U	0.9	U	0.92	U	0.86	U	0.91	U
EPA TO-15	Methyl Tertbutyl Ether	UG/M3	1	U	0.97	U	0.99	U	0.92	U	0.98	U
EPA TO-15	Methylene chloride	UG/M3	0.49	J	1		1.5		1.4		2.7	
EPA TO-15	Styrene	UG/M3	1	U	0.95	U	0.83	J	0.32	J	0.45	J
EPA TO-15	Tetrachloroethene	UG/M3	0.34	J	6.6		0.24	J	0.2	J	0.35	J
EPA TO-15	Toluene	UG/M3	1.4		1.1		4.4		2.7		2.8	
EPA TO-15	trans-1,2-Dichloroethene	UG/M3	1	U	0.97	U	0.99	U	0.92	U	0.98	U
EPA TO-15	trans-1,3-Dichloropropene	UG/M3	1	U	0.95	U	0.98	U	0.91	U	0.96	U
EPA TO-15	Trichloroethene	UG/M3	0.26		0.58		0.2	U	0.19	U	0.3	
EPA TO-15	Trichlorofluoromethane	UG/M3	1.3		1.3		1.3		1.3		1.3	
EPA TO-15	Vinyl chloride	UG/M3	0.21	U	0.2	U	0.2	U	0.19	U	0.2	U
EPA TO-15	Xylene, o	UG/M3	0.29	J	0.52	J	7.1		5.9		5	
EPA TO-15	Xylenes (m&p)	UG/M3	0.69	J	1.3	J	24		21		17	

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
LA FITNESS MARCH 2020 SAMPLING
LOCKHEED MARTIN CORPORATION
FORMER UNISYS FACILITY -- GREAT NECK
LAKE SUCCESS, NEW YORK

		SDG	P2001566		P2001566		P2001566		P2001566		P2001566	
		Location	IA-E16F		IA-E21.5F		IA-F13F		IA-F13F		IA-G18F	
		Sample Date	3/17/2020		3/17/2020		3/17/2020		3/17/2020		3/17/2020	
		Sample ID	IA-E16		IA-E21.5		IA-DUP-2		IA-F13		IA-G18	
		QC Code	FS		FS		FD		FS		FS	
Method	Parameter	Unit	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
EPA TO-15	1,1,1-Trichloroethane	UG/M3	0.99	U	0.99	U	0.91	U	1	U	0.96	U
EPA TO-15	1,1,2,2-Tetrachloroethane	UG/M3	0.99	U	0.99	U	0.91	U	1	U	0.96	U
EPA TO-15	1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/M3	0.48	J	0.53	J	0.48	J	0.48	J	0.47	J
EPA TO-15	1,1,2-Trichloroethane	UG/M3	0.99	U	0.99	U	0.91	U	1	U	0.96	U
EPA TO-15	1,1-Dichloroethane	UG/M3	1	U	1	U	0.93	U	1	U	0.97	U
EPA TO-15	1,1-Dichloroethene	UG/M3	0.2	U	0.2	U	0.19	U	0.21	U	0.19	U
EPA TO-15	1,2,4-Trichlorobenzene	UG/M3	0.99	U	0.99	U	0.91	U	1	U	0.96	U
EPA TO-15	1,2,4-Trimethylbenzene	UG/M3	1.2		2.2		1.3		1.3		1.1	
EPA TO-15	1,2-Dibromo-3-chloropropane	UG/M3	0.97	U	0.98	U	0.9	U	0.99	U	0.94	U
EPA TO-15	1,2-Dibromoethane	UG/M3	0.99	U	0.99	U	0.1	J	1	U	0.96	U
EPA TO-15	1,2-Dichloro-1,1,2,2-tetrafluoroethane	UG/M3	0.97	U	0.98	U	0.9	U	0.99	U	0.94	U
EPA TO-15	1,2-Dichlorobenzene	UG/M3	0.99	U	0.99	U	0.91	U	1	U	0.96	U
EPA TO-15	1,2-Dichloroethane	UG/M3	0.99	U	0.99	U	0.91	U	1	U	0.96	U
EPA TO-15	1,2-Dichloroethene (total)	UG/M3	0.99	U	0.99	U	0.91	U	1	U	0.96	U
EPA TO-15	1,2-Dichloropropane	UG/M3	0.99	U	0.99	U	0.91	U	1	U	0.96	U
EPA TO-15	1,3,5-Trimethylbenzene	UG/M3	0.4	J	0.78	J	0.41	J	0.45	J	0.37	J
EPA TO-15	1,3-Butadiene	UG/M3	0.97	U	0.98	U	0.9	U	0.99	U	0.94	U
EPA TO-15	1,3-Dichlorobenzene	UG/M3	0.99	U	0.99	U	0.91	U	1	U	0.96	U
EPA TO-15	1,4-Dichlorobenzene	UG/M3	0.99	U	0.99	U	0.91	U	1	U	0.96	U
EPA TO-15	1,4-Dioxane	UG/M3	0.99	U	0.99	U	0.91	U	1	U	0.96	U
EPA TO-15	2-Butanone	UG/M3	3.3		11		3.2		4.3		3.3	
EPA TO-15	2-Hexanone	UG/M3	0.99	U	0.99	U	0.91	U	0.37	J	0.22	J
EPA TO-15	2-Propanol	UG/M3	19		32		17		19		23	
EPA TO-15	4-Ethyltoluene	UG/M3	0.24	J	0.66	J	0.28	J	0.26	J	0.22	J

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
LA FITNESS MARCH 2020 SAMPLING
LOCKHEED MARTIN CORPORATION
FORMER UNISYS FACILITY -- GREAT NECK
LAKE SUCCESS, NEW YORK

		SDG	P2001566		P2001566		P2001566		P2001566		P2001566	
		Location	IA-E16F		IA-E21.5F		IA-F13F		IA-F13F		IA-G18F	
		Sample Date	3/17/2020		3/17/2020		3/17/2020		3/17/2020		3/17/2020	
		Sample ID	IA-E16		IA-E21.5		IA-DUP-2		IA-F13		IA-G18	
		QC Code	FS		FS		FD		FS		FS	
Method	**Parameter**	**Unit**	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
EPA TO-15	4-Methyl-2-pentanone	UG/M3	0.34	J	0.95	J	0.36	J	0.42	J	0.36	J
EPA TO-15	Acetic acid, methyl ester	UG/M3	4.2		4.9		4		4.2		4	
EPA TO-15	Acetone	UG/M3	88		56		83		90		85	
EPA TO-15	Allyl chloride	UG/M3	0.99	U	0.99	U	0.91	U	1	U	0.96	U
EPA TO-15	Benzene	UG/M3	0.85	J	2.8		0.66	J	0.65	J	0.65	J
EPA TO-15	Bromodichloromethane	UG/M3	0.99	U	0.99	U	0.91	U	1	U	0.96	U
EPA TO-15	Bromoform	UG/M3	0.99	U	0.99	U	0.91	U	1	U	0.96	U
EPA TO-15	Bromomethane	UG/M3	0.99	U	0.99	U	0.91	U	1	U	0.96	U
EPA TO-15	Carbon disulfide	UG/M3	2	U	0.36	J	1.9	U	2.1	U	0.32	J
EPA TO-15	Carbon tetrachloride	UG/M3	0.38		0.38		0.41		0.37		0.39	
EPA TO-15	Chlorobenzene	UG/M3	0.99	U	0.99	U	0.91	U	1	U	0.96	U
EPA TO-15	Chlorodifluoromethane	UG/M3	1.9		1.6		1.7		1.8		1.6	
EPA TO-15	Chloroethane	UG/M3	0.99	U	0.99	U	0.91	U	1	U	0.96	U
EPA TO-15	Chloroform	UG/M3	0.39	J	0.79	J	0.38	J	0.36	J	0.42	J
EPA TO-15	Chloromethane	UG/M3	0.28	J	0.3	J	0.3	J	0.31	J	0.25	J
EPA TO-15	cis-1,2-Dichloroethene	UG/M3	0.2	U	0.2	U	0.19	U	0.21	U	0.19	U
EPA TO-15	cis-1,3-Dichloropropene	UG/M3	0.95	U	0.96	U	0.88	U	0.97	U	0.92	U
EPA TO-15	Cyclohexane	UG/M3	0.36	J	3.9		0.39	J	0.4	J	0.36	J
EPA TO-15	Dibromochloromethane	UG/M3	0.99	U	0.99	U	0.91	U	1	U	0.96	U
EPA TO-15	Dichlorodifluoromethane	UG/M3	2.6		2.5		2.7		2.7		2.6	
EPA TO-15	Difluoroethane	UG/M3	0.92	U	0.92	U	0.85	U	0.94	U	0.89	U
EPA TO-15	Ethylbenzene	UG/M3	5.4		3.6		4.9		5		4.9	
EPA TO-15	Freon 115	UG/M3	0.92	U	0.92	U	0.85	U	0.94	U	0.89	U
EPA TO-15	Freon 123	UG/M3	0.92	U	0.92	U	0.85	U	0.94	U	0.89	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
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LOCKHEED MARTIN CORPORATION
FORMER UNISYS FACILITY -- GREAT NECK
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		SDG	P2001566		P2001566		P2001566		P2001566		P2001566	
		Location	IA-E16F		IA-E21.5F		IA-F13F		IA-F13F		IA-G18F	
		Sample Date	3/17/2020		3/17/2020		3/17/2020		3/17/2020		3/17/2020	
		Sample ID	IA-E16		IA-E21.5		IA-DUP-2		IA-F13		IA-G18	
		QC Code	FS		FS		FD		FS		FS	
Method	Parameter	Unit	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
EPA TO-15	Hexachlorobutadiene	UG/M3	0.97	U	0.98	U	0.9	U	0.99	U	0.94	U
EPA TO-15	Hexane	UG/M3	0.99		14		0.94		0.94	J	0.99	
EPA TO-15	Isopropylbenzene	UG/M3	0.15	J	0.22	J	0.14	J	0.15	J	0.14	J
EPA TO-15	Methyl cyclohexane	UG/M3	0.92	U	3.6		0.44	J	0.94	U	0.46	J
EPA TO-15	Methyl Tertbutyl Ether	UG/M3	0.99	U	0.99	U	0.91	U	1	U	0.96	U
EPA TO-15	Methylene chloride	UG/M3	1.6		1.2		3.3		3.2		2.5	
EPA TO-15	Styrene	UG/M3	0.73	J	1.6		0.4	J	0.41	J	0.4	J
EPA TO-15	Tetrachloroethene	UG/M3	0.22	J	0.17	J	0.26	J	0.21	J	0.53	J
EPA TO-15	Toluene	UG/M3	2.7		8.6		2.4		2.8		2.5	
EPA TO-15	trans-1,2-Dichloroethene	UG/M3	0.99	U	0.99	U	0.91	U	1	U	0.96	U
EPA TO-15	trans-1,3-Dichloropropene	UG/M3	0.97	U	0.98	U	0.9	U	0.99	U	0.94	U
EPA TO-15	Trichloroethene	UG/M3	0.2	U	0.2	U	0.19	U	0.21	U	0.44	
EPA TO-15	Trichlorofluoromethane	UG/M3	1.3		1.2		1.3		1.3		1.3	
EPA TO-15	Vinyl chloride	UG/M3	0.2	U	0.2	U	0.19	U	0.21	U	0.19	U
EPA TO-15	Xylene, o	UG/M3	6.4		4.3		5.8		6.1		5.8	
EPA TO-15	Xylenes (m&p)	UG/M3	22		13		20		21		20	

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
LA FITNESS MARCH 2020 SAMPLING
LOCKHEED MARTIN CORPORATION
FORMER UNISYS FACILITY -- GREAT NECK
LAKE SUCCESS, NEW YORK

		SDG	P2001566		P2001566		P2001566	
		Location	IA-G5F		IA-G5F		IA-H21F	
		Sample Date	3/17/2020		3/17/2020		3/17/2020	
		Sample ID	IA-DUP-1		IA-G5		IA-H21	
		QC Code	FD		FS		FS	
Method	Parameter	Unit	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
EPA TO-15	1,1,1-Trichloroethane	UG/M3	0.98	U	0.99	U	0.97	U
EPA TO-15	1,1,2,2-Tetrachloroethane	UG/M3	0.98	U	0.99	U	0.97	U
EPA TO-15	1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/M3	0.48	J	0.45	J	0.47	J
EPA TO-15	1,1,2-Trichloroethane	UG/M3	0.98	U	0.99	U	0.97	U
EPA TO-15	1,1-Dichloroethane	UG/M3	1	U	1	U	0.99	U
EPA TO-15	1,1-Dichloroethene	UG/M3	0.2	U	0.2	U	0.2	U
EPA TO-15	1,2,4-Trichlorobenzene	UG/M3	0.98	U	0.99	U	0.97	U
EPA TO-15	1,2,4-Trimethylbenzene	UG/M3	1.3		1.3		1.1	
EPA TO-15	1,2-Dibromo-3-chloropropane	UG/M3	0.96	U	0.98	U	0.95	U
EPA TO-15	1,2-Dibromoethane	UG/M3	0.98	U	0.99	U	0.97	U
EPA TO-15	1,2-Dichloro-1,1,2,2-tetrafluoroethane	UG/M3	0.96	U	0.98	U	0.95	U
EPA TO-15	1,2-Dichlorobenzene	UG/M3	0.98	U	0.99	U	0.97	U
EPA TO-15	1,2-Dichloroethane	UG/M3	0.98	U	0.99	U	0.97	U
EPA TO-15	1,2-Dichloroethene (total)	UG/M3	0.98	U	0.99	U	0.97	U
EPA TO-15	1,2-Dichloropropane	UG/M3	0.98	U	0.99	U	0.97	U
EPA TO-15	1,3,5-Trimethylbenzene	UG/M3	0.44	J	0.45	J	0.38	J
EPA TO-15	1,3-Butadiene	UG/M3	0.96	U	0.98	U	0.95	U
EPA TO-15	1,3-Dichlorobenzene	UG/M3	0.98	U	0.99	U	0.97	U
EPA TO-15	1,4-Dichlorobenzene	UG/M3	0.98	U	0.99	U	0.97	U
EPA TO-15	1,4-Dioxane	UG/M3	0.98	U	0.99	U	0.97	U
EPA TO-15	2-Butanone	UG/M3	3.4		3.7		3.4	
EPA TO-15	2-Hexanone	UG/M3	0.98	U	0.25	J	0.97	U
EPA TO-15	2-Propanol	UG/M3	20		17		19	
EPA TO-15	4-Ethyltoluene	UG/M3	0.25	J	0.24	J	0.26	J

Created by: WCG 04/22/2020
Checked by: LLK 04/22/2020

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
LA FITNESS MARCH 2020 SAMPLING
LOCKHEED MARTIN CORPORATION
FORMER UNISYS FACILITY -- GREAT NECK
LAKE SUCCESS, NEW YORK

		SDG	P2001566		P2001566		P2001566	
		Location	IA-G5F		IA-G5F		IA-H21F	
		Sample Date	3/17/2020		3/17/2020		3/17/2020	
		Sample ID	IA-DUP-1		IA-G5		IA-H21	
		QC Code	FD		FS		FS	
Method	Parameter	Unit	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
EPA TO-15	4-Methyl-2-pentanone	UG/M3	0.38	J	0.4	J	0.33	J
EPA TO-15	Acetic acid, methyl ester	UG/M3	4.6		4.5		4.6	
EPA TO-15	Acetone	UG/M3	79		78		89	
EPA TO-15	Allyl chloride	UG/M3	0.98	U	0.99	U	0.97	U
EPA TO-15	Benzene	UG/M3	0.63	J	0.64	J	0.62	J
EPA TO-15	Bromodichloromethane	UG/M3	0.98	U	0.99	U	0.97	U
EPA TO-15	Bromoform	UG/M3	0.98	U	0.99	U	0.97	U
EPA TO-15	Bromomethane	UG/M3	0.98	U	0.99	U	0.97	U
EPA TO-15	Carbon disulfide	UG/M3	2	U	0.61	J	2	U
EPA TO-15	Carbon tetrachloride	UG/M3	0.39		0.34		0.39	
EPA TO-15	Chlorobenzene	UG/M3	0.98	U	0.99	U	0.97	U
EPA TO-15	Chlorodifluoromethane	UG/M3	1.9		1.9		1.9	
EPA TO-15	Chloroethane	UG/M3	0.98	U	0.99	U	0.97	U
EPA TO-15	Chloroform	UG/M3	0.4	J	0.39	J	0.42	J
EPA TO-15	Chloromethane	UG/M3	0.32	J	0.29	J	0.29	J
EPA TO-15	cis-1,2-Dichloroethene	UG/M3	0.2	U	0.2	U	0.2	U
EPA TO-15	cis-1,3-Dichloropropene	UG/M3	0.94	U	0.96	U	0.94	U
EPA TO-15	Cyclohexane	UG/M3	0.39	J	0.39	J	0.33	J
EPA TO-15	Dibromochloromethane	UG/M3	0.98	U	0.99	U	0.97	U
EPA TO-15	Dichlorodifluoromethane	UG/M3	2.6		2.5		2.6	
EPA TO-15	Difluoroethane	UG/M3	0.91	U	0.92	U	0.9	U
EPA TO-15	Ethylbenzene	UG/M3	4.6		4.4		5.3	
EPA TO-15	Freon 115	UG/M3	0.91	U	0.92	U	0.9	U
EPA TO-15	Freon 123	UG/M3	0.91	U	0.92	U	0.9	U

Created by: WCG 04/22/2020
Checked by: LLK 04/22/2020

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
LA FITNESS MARCH 2020 SAMPLING
LOCKHEED MARTIN CORPORATION
FORMER UNISYS FACILITY -- GREAT NECK
LAKE SUCCESS, NEW YORK

		SDG	P2001566		P2001566		P2001566	
		Location	IA-G5F		IA-G5F		IA-H21F	
		Sample Date	3/17/2020		3/17/2020		3/17/2020	
		Sample ID	IA-DUP-1		IA-G5		IA-H21	
		QC Code	FD		FS		FS	
Method	Parameter	Unit	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
EPA TO-15	Hexachlorobutadiene	UG/M3	0.96	U	0.98	U	0.95	U
EPA TO-15	Hexane	UG/M3	1		0.97	J	1	
EPA TO-15	Isopropylbenzene	UG/M3	0.98	U	0.99	U	0.15	J
EPA TO-15	Methyl cyclohexane	UG/M3	0.91	U	0.92	U	0.9	U
EPA TO-15	Methyl Tertbutyl Ether	UG/M3	0.98	U	0.99	U	0.97	U
EPA TO-15	Methylene chloride	UG/M3	2.1		2.1		1.4	
EPA TO-15	Styrene	UG/M3	0.39	J	0.36	J	0.39	J
EPA TO-15	Tetrachloroethene	UG/M3	0.21	J	0.22	J	0.23	J
EPA TO-15	Toluene	UG/M3	2.4		2.7		2.5	
EPA TO-15	trans-1,2-Dichloroethene	UG/M3	0.98	U	0.99	U	0.97	U
EPA TO-15	trans-1,3-Dichloropropene	UG/M3	0.96	U	0.98	U	0.95	U
EPA TO-15	Trichloroethene	UG/M3	0.2	U	0.2	U	0.2	U
EPA TO-15	Trichlorofluoromethane	UG/M3	1.3		1.2		1.3	
EPA TO-15	Vinyl chloride	UG/M3	0.2	U	0.2	U	0.2	U
EPA TO-15	Xylene, o	UG/M3	5.5		5.2		6.3	
EPA TO-15	Xylenes (m&p)	UG/M3	19		18		22	

ATTACHMENT A
SUMMARY OF VALIDATION QC LIMITS FOR SURROGATES, SPIKES, AND DUPLICATES
BASED ON THE REGION 2 VALIDATION GUIDELINES

PARAMETER	QC TEST	ANALYTE	AIR (%R)	AIR (RPD)
Volatiles TO-15	Surrogate	All Surrogate Compounds	Lab Limits	
	LCS	All Target Compounds	70 - 130	
	Field Duplicate	All Target Compounds		50

Notes:
LCS - Laboratory Control Sample
RPD = Relative percent difference
%R = percent recovery
QC Limits are based on USEPA Region II Data Validation Guidelines and Project QA/QC Objectives
Surrogates for air samples are not specified in the Region II Data Validation Guidelines (2016)

DATA USABILITY SUMMARY REPORT
LA FITNESS MARCH 2020 SAMPLING
LOCKHEED MARTIN CORPORATION
FORMER UNISYS FACILITY -- GREAT NECK
LAKE SUCCESS, NEW YORK

ATTACHMENT B

VOCs in Air

NYSDEC DUSR PROJECT CHEMIST REVIEW RECORD
Project: LA Fitness March IA Sampling
Method : TO-15
Laboratory and SDG(s): ALS, Simi Valley **SDG#** P2001566
Date: 04/21/2020
Reviewer: Liesel Krout
Review Level [X] NYSDEC DUSR USEPA Region II Guideline

Control limits are from EPA Region 2 - SOP# HW-31, October 2006.

1. [✓] **Case Narrative Review and Data Package Completeness** COMMENTS
Were problems noted? no issues noted
Are Field Sample IDs and Locations assigned correctly? YES NO (circle one)
Were all the samples on the COC analyzed for the requested analyses? YES NO (circle one)
Sample ID IA-DUP-01 corrected to IA-DUP-1 and IA-DUP-02 corrected to IA-DUP-2 in TED

2. [✓] **Holding time and Sample Collection**
Were samples analyzed within the 30 day holding time? YES NO (circle one)

3. [✓] **QC Blanks** (use 5x rule for calculating action levels)
Are method blanks free of contamination? YES NO (circle one)

4. [✓] **Instrument Tuning – Data Package Narrative Review**
Did the laboratory narrative identify any results that were not within method criteria? YES NO (circle one)
If yes, use professional judgment to evaluate data and qualify results if needed

5. [✓] **Instrument Calibration - Data Package Narrative Review**
Did the laboratory narrative identify compounds that were not within method criteria (%RSD ≤30; %D ≤30) in the initial calibration and/or continuing calibration standards? YES NO

Did the laboratory qualify results based on initial or continuing calibration exceedances? YES NO NA
If yes to above, use professional judgment to evaluate data and qualify results if needed

6. [✓] **Internal Standards – Data Package Narrative Review**
(Area Limits = +40% to -40%, RTs within 20 seconds of daily CCAL standard (or ICAL mid-point if samples follow ICAL))
Did the laboratory narrative identify any sample internal standards that were not within criteria? YES NO (circle one)

Did the laboratory qualify results based on internal standard exceedances? YES NO NA
If yes to above, use professional judgment to evaluate data and qualify results if needed

7. [✓] **Surrogate Recovery**

Were all results within laboratory limits? YES NO (circle one)

8. [✓] **Field Duplicates**
Were Field Duplicates submitted/analyzed? YES NO
see attached- no quals

Were all results were within criteria (Field Dup RPD goal = 50). YES NO NA (circle one)

9. [✓] **Laboratory Control Sample Results** (limits 70-130%)

Were all results within limits? YES NO (circle one)

10. [✓] **Reporting Limits:** Were samples analyzed at a dilution? YES NO (circle one)

Sample IA-12 was analyzed at 10x dilution for acetone - no elevated RLs reported

11. ☑ **Raw Data Review and Calculation Checks**

see attached

12. ☑ **Electronic Data Review and Edits**

Does the EDD match the Form Is? YES NO (circle one)

13. ☑ **Tables Review**

Table 1 (Samples and Analytical Methods)
Table 2 (Analytical Results)
Table 3 (Qualification Actions)
Were all tables produced and reviewed? YES NO (circle one)

Table 4 (TICs) Did lab report TICs? YES NO (circle one)

RPD < 50

Sample ID: IA-G5/IA-DUP-1

Compund	Result	LabQual	DF		Dup	LabQual	DF		RPD	
1,1,2-Trichloro-1,2,2-Trifluoroeth	0.45	J		1.84	0.48	J		1.81	6.451613	
1,2,4-Trimethylbenzene	1.3			1.84	1.3			1.81	0	
1,3,5-Trimethylbenzene	0.45	J		1.84	0.44	J		1.81	2.247191	
2-Butanone	3.7			1.84	3.4			1.81	8.450704	
2-Hexanone	0.25	J		1.84	0.98	U		1.81	118.6992	okay- both under RL
2-Propanol	17			1.84	20			1.81	16.21622	
4-Ethyltoluene	0.24	J		1.84	0.25	J		1.81	4.081633	
4-Methyl-2-pentanone	0.40	J		1.84	0.38	J		1.81	5.128205	
Acetic acid, methyl ester	4.5	X		1.84	4.6	X		1.81	2.197802	
Acetone	78			1.84	79			1.81	1.273885	
Benzene	0.64	J		1.84	0.63	J		1.81	1.574803	
Carbon disulfide	0.61	J		1.84	2.0	U		1.81	106.5134	okay- both under RL
Carbon tetrachloride	0.34			1.84	0.39			1.81	13.69863	
Chlorodifluoromethane	1.9	X		1.84	1.9	X		1.81	0	
Chloroform	0.39	J		1.84	0.40	J		1.81	2.531646	
Chloromethane	0.29	J		1.84	0.32	J		1.81	9.836066	
Cyclohexane	0.39	J		1.84	0.39	J		1.81	0	
Dichlorodifluoromethane	2.5			1.84	2.6			1.81	3.921569	
Ethylbenzene	4.4			1.84	4.6			1.81	4.444444	
Hexane	0.97	J		1.84	1.0			1.81	3.045685	
Methylene chloride	2.1			1.84	2.1			1.81	0	
Styrene	0.36	J		1.84	0.39	J		1.81	8	
Tetrachloroethene	0.22	J		1.84	0.21	J		1.81	4.651163	
Toluene	2.7			1.84	2.4			1.81	11.76471	
Trichlorofluoromethane	1.2			1.84	1.3			1.81	8	
Xylene, o	5.2			1.84	5.5			1.81	5.607477	
Xylenes (m&p)	18			1.84	19			1.81	5.405405	

Sample ID: IA-F13/IA-DUP-2

Compund	Result	LabQual	DF		Dup	LabQual	DF		RPD	
1,1,2-Trichloro-1,2,2-Trifluoroeth	0.48	J		1.87	0.48	J		1.69	0	
1,2,4-Trimethylbenzene	1.3			1.87	1.3			1.69	0	
1,2-Dibromoethane	1.0	U		1.87	0.10	J		1.69	163.6364	okay- both under RL
1,3,5-Trimethylbenzene	0.45	J		1.87	0.41	J		1.69	9.302326	
2-Butanone	4.3			1.87	3.2			1.69	29.33333	
2-Hexanone	0.37	J		1.87	0.91	U		1.69	84.375	okay- both under RL
2-Propanol	19			1.87	17			1.69	11.11111	
4-Ethyltoluene	0.26	J		1.87	0.28	J		1.69	7.407407	
4-Methyl-2-pentanone	0.42	J		1.87	0.36	J		1.69	15.38462	
Acetic acid, methyl ester	4.2	X		1.87	4.0	X		1.69	4.878049	
Acetone	90			1.87	83			1.69	8.092486	

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Benzene	0.65	J	1.87	0.66	J	1.69	1.526718	
Carbon tetrachloride	0.37		1.87	0.41		1.69	10.25641	
Chlorodifluoromethane	1.8	X	1.87	1.7	X	1.69	5.714286	
Chloroform	0.36	J	1.87	0.38	J	1.69	5.405405	
Chloromethane	0.31	J	1.87	0.30	J	1.69	3.278689	
Cyclohexane	0.40	J	1.87	0.39	J	1.69	2.531646	
Dichlorodifluoromethane	2.7		1.87	2.7		1.69	0	
Ethylbenzene	5.0		1.87	4.9		1.69	2.020202	
Hexane	0.94	J	1.87	0.94		1.69	0	
Isopropylbenzene	0.15	J	1.87	0.14	J	1.69	6.896552	
Methyl cyclohexane	0.94	U,X	1.87	0.44	J,X	1.69	72.46377	okay- both under RL
Methylene chloride	3.2		1.87	3.3		1.69	3.076923	
Styrene	0.41	J	1.87	0.40	J	1.69	2.469136	
Tetrachloroethene	0.21	J	1.87	0.26	J	1.69	21.2766	
Toluene	2.8		1.87	2.4		1.69	15.38462	
Trichlorofluoromethane	1.3		1.87	1.3		1.69	0	
Xylene, o	6.1		1.87	5.8		1.69	5.042017	
Xylenes (m&p)	21		1.87	20		1.69	4.878049	

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ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Wood
Service Request: P2001566
Project ID: Former Unisys Facility / 3617187442

Date Received: 3/18/2020
Time Received: 09:30

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pfl (psig)	TO-15 - VOC Cans
IA-G5	P2001566-001	Air	3/17/2020	16:34	SC00658	-4.55	3.97	X
IA-E10	P2001566-002	Air	3/17/2020	16:36	AS01261	-4.32	4.22	X
IA-D13	P2001566-003	Air	3/17/2020	16:40	AC02064	-3.97	3.66	X
IA-F13	P2001566-004	Air	3/17/2020	16:48	AC02077	-4.81	3.81	X
IA-E16	P2001566-005	Air	3/17/2020	16:46	AS00864	-4.62	3.70	X
IA-G18	P2001566-006	Air	3/17/2020	16:41	SSC00157	-3.73	4.69	X
IA-C20	P2001566-007	Air	3/17/2020	16:45	AC02100	-4.77	3.59	X
IA-E21.5	P2001566-008	Air	3/17/2020	16:44	AS00827	-4.64	3.80	X
IA-H21	P2001566-009	Air	3/17/2020	16:42	AS00828	-4.38	3.86	X
IA-12	P2001566-010	Air	3/17/2020	16:33	SC01557	-4.12	4.20	X
AA-01	P2001566-011	Air	3/17/2020	16:52	AS00535	-4.54	4.55	X
IA-DUP-01	P2001566-012	Air	3/17/2020	16:34	AS01367	-4.43	3.84	X
IA-DUP-02	P2001566-013	Air	3/17/2020	16:48	AC02014	-3.54	4.15	X

Response Factor Report GCMS-16

Method Path : I:\MS16\METHODS\
Method File : R16031120.M
Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
Last Update : Wed Mar 11 10:42:05 2020
Response Via : Initial Calibration

LH 3/11/20

Calibration Files
0.1 =03112002.D 0.2 =03112003.D 0.5 =03112004.D 1.0 =03112005.D 5.0 =03112006.D 25 =03112
100 =03112009.D

		Compound	0.1	0.2	0.5	1.0	5.0	25	50	100	Avg	%RSD
1)	IR	Bromochloromethane...	----------				ISTD					
2)	T	Propene	1.484	1.302	1.317	1.227	1.437	1.254	1.320	1.147	1.311	8.32
3)	T	Dichlorodifluo...	3.312	2.974	3.197	2.868	2.801	2.658	2.501	2.254	2.821	12.42
4)	T	Chloromethane	2.766	2.486	2.617	2.409	2.072	2.149	1.957	1.361	2.227	20.05
5)	T	1,2-Dichloro-1...	2.087	1.848	1.942	1.791	1.754	1.694	1.649	1.607	1.796	8.88
6)	T	Vinyl Chloride	2.581	2.415	2.582	2.394	2.357	2.248	2.160	2.069	2.351	7.86
7)	T	1,3-Butadiene	1.731	1.774	1.731	1.783	1.791	1.445	1.708	1.660	1.703	6.63
8)	T	Bromomethane	1.312	1.126	1.231	1.136	1.109	1.139	1.178	1.190	1.178	5.70
9)	T	Chloroethane	1.027	0.877	0.949	0.879	0.853	0.867	0.878	0.887	0.902	6.41
10)	T	Ethanol	1.336	1.017	0.987	0.910	0.929	1.005	1.058	1.046	1.036	12.73
11)	T	Acetonitrile	2.985	2.385	2.317	2.132	2.155	2.110	2.109	2.042	2.279	13.49
12)	T	Acrolein	0.742	0.697	0.781	0.723	0.776	0.804	0.806	0.770	0.762	5.05
13)	T	Acetone	1.084	0.936	0.961	0.904	0.948	1.096	1.138	1.113	1.023	9.15
14)	T	Trichlorofluor...	2.643	2.472	2.635	2.414	2.412	2.465	2.434	2.421	2.487	3.88
15)	T	2-Propanol (Is...	3.445	2.983	3.234	3.064	2.717	3.293	2.967	2.557	3.033	9.75
16)	T	Acrylonitrile	1.236	1.318	1.523	1.527	1.622	1.703	1.693	1.654	1.534	11.33
17)	T	1,1-Dichloroet...	1.216	1.148	1.286	1.172	1.196	1.259	1.267	1.297	1.230	4.50
18)	T	2-Methyl-2-Pro...	3.082	2.861	3.144	2.953	2.636	3.323	2.587	1.185	2.721	24.57
19)	T	Methylene Chlo...	1.393	1.290	1.345	1.250	1.286	1.366	1.358	1.356	1.330	3.68
20)	T	3-Chloro-1-pro...	1.835	1.602	1.748	1.648	1.638	1.800	1.773	1.746	1.724	4.88
21)	T	Trichlorotrifl...	1.319	1.142	1.223	1.121	1.111	1.171	1.183	1.246	1.189	5.90
22)	T	Carbon Disulfide	5.167	4.610	4.865	4.604	4.601	4.942	4.834	4.656	4.785	4.28
23)	T	trans-1,2-Dich...	1.668	1.663	1.842	1.771	1.782	1.854	1.844	1.858	1.785	4.51
24)	T	1,1-Dichloroet...	2.451	2.234	2.370	2.236	2.226	2.286	2.223	2.202	2.278	3.85
25)	T	Methyl tert-Bu...	4.103	3.758	4.015	3.718	3.660	3.737	3.495	3.018	3.688	9.01
26)	T	Vinyl Acetate			0.274	0.271	0.305	0.409	0.435	0.412	0.351	21.56
27)	T	2-Butanone (MEK)	0.688	0.692	0.835	0.819	0.887	0.984	0.961	0.944	0.851	13.55
28)	T	cis-1,2-Dichlo...	2.026	1.746	1.922	1.770	1.803	1.880	1.848	1.846	1.855	4.84
29)	T	Diisopropyl Ether	1.390	1.199	1.373	1.249	1.344	1.426	1.526	1.353	1.357	7.45
30)	T	Ethyl Acetate	0.404	0.382	0.446	0.455	0.493	0.622	0.657	0.567	0.503	20.16
31)	T	n-Hexane	2.432	2.073	2.248	2.068	2.186	2.599	2.698	2.351	2.332	10.00
32)	T	Chloroform	2.556	2.409	2.583	2.408	2.438	2.536	2.500	2.425	2.482	2.84
33)	S	1,2-Dichloroet...	1.826	1.819	1.808	1.793	1.747	1.676	1.639	1.538	1.731	5.99
34)	T	Tetrahydrofura...	0.966	0.833	0.871	0.818	0.853	0.893	0.889	0.885	0.876	5.18
35)	T	Ethyl tert-But...	1.615	1.426	1.538	1.444	1.511	1.660	1.716	1.772	1.585	7.96
36)	T	1,2-Dichloroet...	2.197	1.920	1.993	1.859	1.883	1.925	1.882	1.830	1.936	6.01
37)	IR	1,4-Difluorobenzen...	----------				ISTD					
38)	T	1,1,1-Trichlor...	0.516	0.450	0.502	0.458	0.473	0.507	0.507	0.511	0.491	5.30
39)	T	Isopropyl Acetate	0.177	0.165	0.182	0.168	0.193	0.240	0.252	0.247	0.203	18.23
40)	T	1-Butanol	0.273	0.256	0.255	0.264	0.323	0.398	0.425	0.405	0.325	22.66
41)	T	Benzene	1.300	1.174	1.231	1.155	1.222	1.396	1.462	1.400	1.293	8.91
42)	T	Carbon Tetrach...	0.434	0.393	0.435	0.402	0.431	0.476	0.483	0.496	0.444	8.51
43)	T	Cyclohexane	0.485	0.436	0.479	0.442	0.467	0.538	0.571	0.553	0.496	10.31
44)	T	tert-Amyl Meth...	0.827	0.747	0.803	0.752	0.801	0.905	0.931	0.923	0.836	8.88
45)	T	1,2-Dichloropr...	0.311	0.286	0.296	0.274	0.287	0.304	0.304	0.303	0.296	4.18
46)	T	Bromodichlorom...	0.417	0.384	0.432	0.398	0.426	0.475	0.483	0.480	0.437	8.75
47)	T	Trichloroethene	0.500	0.365	0.336	0.302	0.311	0.351	0.370	0.396	0.366	16.97
48)	T	1,4-Dioxane	0.231	0.209	0.238	0.223	0.236	0.273	0.287	0.303	0.250	13.41
49)	T	2,2,4-Trimethy...	1.323	1.153	1.245	1.138	1.186	1.269	1.281	1.231	1.228	5.26
50)	T	Methyl Methacr...	0.097	0.091	0.110	0.108	0.122	0.151	0.159	0.161	0.125	22.71
51)	T	n-Heptane	0.297	0.278	0.290	0.269	0.289	0.319	0.330	0.342	0.302	8.64
52)	T	cis-1,3-Dichlo...	0.412	0.375	0.433	0.423	0.481	0.552	0.569	0.572	0.477	16.37
53)	T	4-Methyl-2-pen...	0.230	0.222	0.254	0.250	0.280	0.309	0.314	0.318	0.271	14.17
54)	T	trans-1,3-Dich...			0.360	0.370	0.430	0.492	0.502	0.506	0.443	15.04

LH 04/21/2020

Primary Source Standards Concentrations (Working & Initial Calibration)

LH 3/13/20

1ng/L Std. ID: | 40ng/L Std. ID:
4ng/L Std. ID: S34-03102004 | 200ng/L Std. ID: S34-03102002
20ng/L Std. ID: S34-03102003 | 1000ng/L Std. ID:

Dilution Factors:		1	5	25	50	250	1000	Working STD Conc.(ng/L):	4	4	4	20	200	200	200	200
	Source Std.		Primary Working Standards					Injection (L):	0.025	0.050	0.1250	0.050	0.025	0.125	0.25	0.50
Compounds	mg/m³	1000ng/L	200ng/L	40ng/L	20ng/L	4ng/L	1ng/L	ICAL Points:	0.1ng	0.2ng	0.5ng	1ng	5ng	25ng	50ng	100ng
Propene	1.06	1060	212	42.4	21.2	4.24	1.06		0.106	0.212	0.530	1.06	5.30	26.50	53.0	106
Dichlorodifluoromethane	1.06	1060	212	42.4	21.2	4.24	1.06		0.106	0.212	0.530	1.06	5.30	26.50	53.0	106
Chloromethane	1.06	1060	212	42.4	21.2	4.24	1.06		0.106	0.212	0.530	1.06	5.30	26.50	53.0	106
Freon-114	1.05	1050	210	42.0	21.0	4.20	1.05		0.105	0.210	0.525	1.05	5.25	26.25	52.5	105
Vinyl Chloride	1.08	1080	216	43.2	21.6	4.32	1.08		0.108	0.216	0.540	1.08	5.40	27.00	54.0	108
1,3-Butadiene	1.06	1060	212	42.4	21.2	4.24	1.06		0.106	0.212	0.530	1.06	5.30	26.50	53.0	106
Bromomethane	1.08	1080	216	43.2	21.6	4.32	1.08		0.108	0.216	0.540	1.08	5.40	27.00	54.0	108
Chloroethane	1.08	1080	216	43.2	21.6	4.32	1.08		0.108	0.216	0.540	1.08	5.40	27.00	54.0	108
Ethanol	5.21	5210	1042	208.4	104.2	20.84	5.21		0.521	1.042	2.605	5.21	26.05	130.25	260.5	521
Acetonitrile	1.05	1050	210	42.0	21.0	4.20	1.05		0.105	0.210	0.525	1.05	5.25	26.25	52.5	105
Acrolein	1.03	1030	206	41.2	20.6	4.12	1.03		0.103	0.206	0.515	1.03	5.15	25.75	51.5	103
Acetone	5.33	5330	1066	213.2	106.6	21.32	5.33		0.533	1.066	2.665	5.33	26.65	133.25	266.5	533
Trichlorofluoromethane	1.06	1060	212	42.4	21.2	4.24	1.06		0.106	0.212	0.530	1.06	5.30	26.50	53.0	106
Isopropanol	2.10	2100	420	84.0	42.0	8.40	2.10		0.210	0.420	1.050	2.10	10.50	52.50	105.0	210
Acrylonitrile	1.05	1050	210	42.0	21.0	4.20	1.05		0.105	0.210	0.525	1.05	5.25	26.25	52.5	105
1,1-Dichloroethene	1.08	1080	216	43.2	21.6	4.32	1.08		0.108	0.216	0.540	1.08	5.40	27.00	54.0	108
tert-Butanol	2.16	2160	432	86.4	43.2	8.64	2.16		0.216	0.432	1.080	2.16	10.80	54.00	108.0	216
Methylene Chloride	1.06	1060	212	42.4	21.2	4.24	1.06		0.106	0.212	0.530	1.06	5.30	26.50	53.0	106
Allyl Chloride	1.08	1080	216	43.2	21.6	4.32	1.08		0.108	0.216	0.540	1.08	5.40	27.00	54.0	108
Trichlorotrifluoroethane	1.08	1080	216	43.2	21.6	4.32	1.08		0.108	0.216	0.540	1.08	5.40	27.00	54.0	108
Carbon Disulfide	1.07	1070	214	42.8	21.4	4.28	1.07		0.107	0.214	0.535	1.07	5.35	26.75	53.5	107
trans-1,2-Dichloroethene	1.08	1080	216	43.2	21.6	4.32	1.08		0.108	0.216	0.540	1.08	5.40	27.00	54.0	108
1,1-Dichloroethane	1.09	1090	218	43.6	21.8	4.36	1.09		0.109	0.218	0.545	1.09	5.45	27.25	54.5	109
Methyl tert-Butyl Ether	1.08	1080	216	43.2	21.6	4.32	1.08		0.108	0.216	0.540	1.08	5.40	27.00	54.0	108
Vinyl Acetate	5.35	5350	1070	214.0	107.0	21.40	5.35		0.535	1.070	2.675	5.35	26.75	133.75	267.5	535
2-Butanone	1.06	1060	212	42.4	21.2	4.24	1.06		0.106	0.212	0.530	1.06	5.30	26.50	53.0	106
cis-1,2-Dichloroethene	1.06	1060	212	42.4	21.2	4.24	1.06		0.106	0.212	0.530	1.06	5.30	26.50	53.0	106
Diisopropyl Ether	1.08	1080	216	43.2	21.6	4.32	1.08		0.108	0.216	0.540	1.08	5.40	27.00	54.0	108
Ethyl Acetate	2.17	2170	434	86.8	43.4	8.68	2.17		0.217	0.434	1.085	2.17	10.85	54.25	108.5	217
n-Hexane	1.08	1080	216	43.2	21.6	4.32	1.08		0.108	0.216	0.540	1.08	5.40	27.00	54.0	108
Chloroform	1.07	1070	214	42.8	21.4	4.28	1.07		0.107	0.214	0.535	1.07	5.35	26.75	53.5	107
Tetrahydrofuran	1.09	1090	218	43.6	21.8	4.36	1.09		0.109	0.218	0.545	1.09	5.45	27.25	54.5	109
Ethyl tert-Butyl Ether	1.08	1080	216	43.2	21.6	4.32	1.08		0.108	0.216	0.540	1.08	5.40	27.00	54.0	108
1,2-Dichloroethane	1.08	1080	216	43.2	21.6	4.32	1.08		0.108	0.216	0.540	1.08	5.40	27.00	54.0	108
1,1,1-Trichloroethane	1.07	1070	214	42.8	21.4	4.28	1.07		0.107	0.214	0.535	1.07	5.35	26.75	53.5	107
Isopropyl Acetate	2.11	2110	422	84.4	42.2	8.44	2.11		0.211	0.422	1.055	2.11	10.55	52.75	105.5	211
1-Butanol	2.08	2080	416	83.2	41.6	8.32	2.08		0.208	0.416	1.040	2.08	10.40	52.00	104.0	208
Benzene	1.06	1060	212	42.4	21.2	4.24	1.06		0.106	0.212	0.530	1.06	5.30	26.50	53.0	106
Carbon Tetrachloride	1.05	1050	210	42.0	21.0	4.20	1.05		0.105	0.210	0.525	1.05	5.25	26.25	52.5	105
Cyclohexane	2.12	2120	424	84.8	42.4	8.48	2.12		0.212	0.424	1.060	2.12	10.60	53.00	106.0	212
tert-Amyl Methyl Ether	1.08	1080	216	43.2	21.6	4.32	1.08		0.108	0.216	0.540	1.08	5.40	27.00	54.0	108
1,2-Dichloropropane	1.08	1080	216	43.2	21.6	4.32	1.08		0.108	0.216	0.540	1.08	5.40	27.00	54.0	108
Bromodichloromethane	1.08	1080	216	43.2	21.6	4.32	1.08		0.108	0.216	0.540	1.08	5.40	27.00	54.0	108
Trichloroethene	1.07	1070	214	42.8	21.4	4.28	1.07		0.107	0.214	0.535	1.07	5.35	26.75	53.5	107
1,4-Dioxane	1.08	1080	216	43.2	21.6	4.32	1.08		0.108	0.216	0.540	1.08	5.40	27.00	54.0	108
Isooctane	1.07	1070	214	42.8	21.4	4.28	1.07		0.107	0.214	0.535	1.07	5.35	26.75	53.5	107
Methyl Methacrylate	2.15	2150	430	86.0	43.0	8.60	2.15		0.215	0.430	1.075	2.15	10.75	53.75	107.5	215
n-Heptane	1.08	1080	216	43.2	21.6	4.32	1.08		0.108	0.216	0.540	1.08	5.40	27.00	54.0	108

Q:\TO15 Std. Concentrations\MS16 Std. Conc\2020\R16031120\ICAL Conc. (Primary Source)

Date Updated: 03/10/20
Version: 2

Quantitation Report (QT Reviewed)

Data File: I:\MS16\DATA\2020 03\11\03112003.D
Acq On : 11 Mar 2020 1:32 Operator: LH
Sample : 0.2ng TO15 ICAL STD
Misc : S31-02112001/S34-03102004 (4/8)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 11 10:34:46 2020
Quant Method : I:\MS16\METHODS\R16031120.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS) LH 3/11/20
QLast Update : Wed Mar 11 10:34:22 2020
Response via : Initial Calibration
DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	11.16	130	249384	12.500	ng		-0.01
37) 1,4-Difluorobenzene (IS2)	13.29	114	1122523	12.500	ng		0.00
56) Chlorobenzene-d5 (IS3)	17.61	82	545376	12.500	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	12.02	65	453537	13.428	ng		-0.01
Spiked Amount 12.500	Range 70 - 130		Recovery = 107.44%				
57) Toluene-d8 (SS2)	15.74	98	1216540	12.497	ng		0.00
Spiked Amount 12.500	Range 70 - 130		Recovery = 100.00%				
73) Bromofluorobenzene (SS3)	19.00	174	407799	11.866	ng		0.00
Spiked Amount 12.500	Range 70 - 130		Recovery = 94.96%				
Target Compounds							Qvalue
2) Propene	4.15	42	5507	0.200	ng		96
3) Dichlorodifluoromethan...	4.30	85	12579	0.222	ng		98
4) Chloromethane	4.58	50	10516	0.233	ng		99
5) 1,2-Dichloro-1,1,2,2-t...	4.83	135	7744	0.217	ng		97
6) Vinyl Chloride	4.99	62	10406	0.217	ng		99
7) 1,3-Butadiene	5.25	54	7505	0.213	ng		95
8) Bromomethane	5.68	94	4852	0.204	ng		99
9) Chloroethane	6.02	64	3780	0.208	ng		96
10) Ethanol	6.34	45	21141	1.067	ng		98
11) Acetonitrile	6.62	41	9992	0.224	ng		93
12) Acrolein	6.82	56	2866	0.192	ng		91
13) Acetone	7.03	58	19909	0.937	ng	#	80
14) Trichlorofluoromethane	7.28	101	10457	0.209	ng		100
15) 2-Propanol (Isopropanol)	7.52	45	24992	0.412	ng		86
16) Acrylonitrile	7.78	53	5522	0.176	ng		97
17) 1,1-Dichloroethene	8.23	96	4945	0.198	ng		92
18) 2-Methyl-2-Propanol (t...	8.43	59	24656	0.461	ng		93
19) Methylene Chloride	8.43	84	5458	0.203	ng		95
20) 3-Chloro-1-propene (Al...	8.61	41	6905	0.196	ng		88
21) Trichlorotrifluoroethane	8.88	151	4920	0.205	ng		98
22) Carbon Disulfide	8.72	76	19683	0.199	ng		99
23) trans-1,2-Dichloroethene	9.72	61	7168	0.198	ng		94
24) 1,1-Dichloroethane	9.96	63	9716	0.211	ng		98
25) Methyl tert-Butyl Ether	10.10	73	16195	0.217	ng		99
26) Vinyl Acetate	10.24	86	4334	0.786	ng	#	18
27) 2-Butanone (MEK)	10.51	72	2928	0.169	ng	#	80
28) cis-1,2-Dichloroethene	10.99	61	7384	0.201	ng		98
29) Diisopropyl Ether	11.31	87	5165	0.185	ng	#	94
30) Ethyl Acetate	11.31	61	3304	0.318	ng		96
31) n-Hexane	11.28	57	8933	0.189	ng		96
32) Chloroform	11.33	83	10286	0.212	ng		96
34) Tetrahydrofuran (THF)	11.78	72	3622	0.206	ng		93
35) Ethyl tert-Butyl Ether	11.91	87	6143	0.194	ng		95
36) 1,2-Dichloroethane	12.14	62	8272	0.219	ng		99
38) 1,1,1-Trichloroethane	12.42	97	8643	0.200	ng		97
39) Isopropyl Acetate	12.86	61	6247	0.343	ng	#	77
40) 1-Butanol	12.90	56	9557	0.412	ng	#	77
41) Benzene	12.90	78	22360	0.196	ng		99
42) Carbon Tetrachloride	13.06	117	7406	0.185	ng		99
43) Cyclohexane	13.19	84	16591	0.372	ng		96
44) tert-Amyl Methyl Ether	13.55	73	14491	0.190	ng		92
45) 1,2-Dichloropropane	13.75	63	5545	0.208	ng		96
46) Bromodichloromethane	13.95	83	7450	0.189	ng		99
47) Trichloroethene	14.00	130	7011	0.232	ng		99
48) 1,4-Dioxane	13.99	88	4052	0.176	ng		92
49) 2,2,4-Trimethylpentane...	14.07	57	22167	0.200	ng		94

Quantitation Report (QT Reviewed)

Data File : I:\MS16\DATA\2020 03\30\03302017.D Vial: 8
Acq On : 30 Mar 2020 15:21 Operator: LH
Sample : P2001566-001 (1000mL) Inst : GCMS-16
Misc : S31-02112001

Quant Time: Mar 30 20:17:10 2020
Quant Method : I:\MS16\METHODS\R16031120.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Mar 11 10:42:05 2020
Response via : Initial Calibration
DataAcq Meth:TO15.M

LH 3/30/20

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	11.16	130	315325	12.500	ng		-0.02
37) 1,4-Difluorobenzene (IS2)	13.29	114	1405365	12.500	ng		-0.02
56) Chlorobenzene-d5 (IS3)	17.61	82	720883	12.500	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	12.02	65	588209	13.472	ng		-0.02
Spiked Amount 12.500	Range 70 - 130		Recovery = 107.76%				
57) Toluene-d8 (SS2)	15.74	98	1500359	11.742	ng		-0.01
Spiked Amount 12.500	Range 70 - 130		Recovery = 93.92%				
73) Bromofluorobenzene (SS3)	19.00	174	528288	11.708	ng		0.00
Spiked Amount 12.500	Range 70 - 130		Recovery = 93.68%				
Target Compounds							Qvalue
2) Propene	4.10	42	143305	4.333	ng		97
3) Dichlorodifluoromethan...	4.28	85	98068	1.378	ng		99
4) Chloromethane	4.56	50	8922	0.159	ng		97
5) 1,2-Dichloro-1,1,2,2-t...	4.82	135	2566	0.057	ng		86
6) Vinyl Chloride	0.00	62	0	N.D.			
7) 1,3-Butadiene	5.24	54	1466	N.D.			
8) Bromomethane	5.67	94	451	N.D.			
9) Chloroethane	5.99	64	164	N.D.			
10) Ethanol	6.35	45	2205342	84.376	ng		100
11) Acetonitrile	6.62	41	7398	0.129	ng		95
12) Acrolein	6.81	56	6361	0.331	ng		94
13) Acetone	7.00	58	1088882	42.214	ng		89
14) Trichlorofluoromethane	7.26	101	42613	0.679	ng		99
15) 2-Propanol (Isopropanol)	7.50	45	707886	9.254	ng		99
16) Acrylonitrile	7.78	53	815	N.D.			
17) 1,1-Dichloroethene	0.00	96	0	N.D.			
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D. d			
19) Methylene Chloride	8.44	84	37543	1.119	ng		94
20) 3-Chloro-1-propene (Al...	8.61	41	299	N.D.			
21) Trichlorotrifluoroethane	8.88	151	7377	0.246	ng		93
22) Carbon Disulfide	8.70	76	40034	0.332	ng	☑	99
23) trans-1,2-Dichloroethene	9.72	61	471	N.D.			
24) 1,1-Dichloroethane	0.00	63	0	N.D.			
25) Methyl tert-Butyl Ether	10.11	73	1495	N.D.			
26) Vinyl Acetate	0.00	86	0	N.D. d			
27) 2-Butanone (MEK)	10.48	72	42815	1.994	ng	#	83
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.			
29) Diisopropyl Ether	0.00	87	0	N.D. d			
30) Ethyl Acetate	11.28	61	208447	16.423	ng		83
31) n-Hexane	11.28	57	30940	0.526	ng		95
32) Chloroform	11.33	83	13213	0.211	ng		100
34) Tetrahydrofuran (THF)	11.78	72	2549	0.115	ng	#	85
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.			
36) 1,2-Dichloroethane	12.14	62	1993	N.D.			
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.			
39) Isopropyl Acetate	12.89	61	235	N.D.			
40) 1-Butanol	0.00	56	0	N.D. d			
41) Benzene	12.90	78	50363	0.347	ng		100
42) Carbon Tetrachloride	13.06	117	9320	0.187	ng		97
43) Cyclohexane	13.19	84	11929	0.214	ng		94
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.			
45) 1,2-Dichloropropane	13.76	63	308	N.D.			
46) Bromodichloromethane	13.96	83	795	N.D.			
47) Trichloroethene	13.99	130	1693	N.D.			
48) 1,4-Dioxane	14.01	88	1190	N.D.			
49) 2,2,4-Trimethylpentane...	0.00	57	0	N.D. d			
50) Methyl Methacrylate	14.23	100	188	N.D.			

LLK 04/21/2020

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Wood**
Client Sample ID: **IA-G5**
Client Project ID: **Former Unisys Facility / 3617187442**

ALS Project ID: P2001566
ALS Sample ID: P2001566-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00658

Date Collected: 3/17/20
Date Received: 3/18/20
Date Analyzed: 3/30/20
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.55 Final Pressure (psig): 3.97

Container Dilution Factor: 1.84 ☑

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.5**	0.98	0.16	**0.51**	0.20	0.032	
74-87-3	Chloromethane	**0.29**	0.98	0.16	**0.14**	0.47	0.077	**J**
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.98	0.15	ND	0.14	0.022	
75-01-4	Vinyl Chloride	ND	0.20	0.10	ND	0.079	0.041	
106-99-0	1,3-Butadiene	ND	0.98	0.16	ND	0.44	0.073	
74-83-9	Bromomethane	ND	0.99	0.14	ND	0.26	0.035	
75-00-3	Chloroethane	ND	0.99	0.12	ND	0.38	0.046	
67-64-1	Acetone	**78**	9.8	2.2	**33**	4.1	0.93	
75-69-4	Trichlorofluoromethane	**1.2**	0.98	0.15	**0.22**	0.17	0.027	
67-63-0	2-Propanol (Isopropyl Alcohol)	**17**	3.9	0.40	**6.9**	1.6	0.16	
75-35-4	1,1-Dichloroethene	ND	0.20	0.14	ND	0.051	0.034	
75-09-2	Methylene Chloride	**2.1**	0.98	0.28	**0.59**	0.28	0.079	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.99	0.13	ND	0.32	0.042	
76-13-1	Trichlorotrifluoroethane	**0.45**	0.99	0.14	**0.059**	0.13	0.018	**J**
75-15-0	Carbon Disulfide	**0.61** ☑	2.0	0.29	**0.20**	0.65	0.095	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.99	0.14	ND	0.25	0.034	
75-34-3	1,1-Dichloroethane	ND	1.0	0.14	ND	0.25	0.035	
1634-04-4	Methyl tert-Butyl Ether	ND	0.99	0.12	ND	0.28	0.032	
78-93-3	2-Butanone (MEK)	**3.7**	2.0	0.20	**1.2**	0.69	0.069	
156-59-2	cis-1,2-Dichloroethene	ND	0.20	0.14	ND	0.051	0.035	
110-54-3	n-Hexane	**0.97**	0.99	0.20	**0.27**	0.28	0.057	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

LLK 04/21/2020

DUSR Calculations Sheet
Liesel Krout
4/21/2020

Sample ID: IA-G5
TC: Carbon disulfide
ICAL Level: 0.2 ng/L
Val File Result for TC: 0.61 J ug/m3

Ical Calc

Area TC	19683
Area IS	249384
Conc TC	0.214
Conc IS	12.5
RRF =	4.610191

1	5.167
2	4.61
3	4.865
4	4.604
5	4.601
6	4.942
7	4.834
8	4.656
9	
10	
Avg RRF =	4.784875
Std Dev =	0.20468
%RSD =	4.277642

Sample Calc

Area TC	40034
Area IS	315325
Conc IS	12.5
Avg RRF	4.784875
Conc TC =	0.331673 ng/mL

Pi	-4.55
Pf	3.97
Canister DF	1.839409
DF	1
Conc TC (conv)	0.610082 ug/m3

Notes:
Green = matched reported value
Red = did not match reported value

APPENDIX B - SAMPLING LOGS

SOP Owner:	Amec E&E, PC
SOP No.:	SSDS-26
Revision No.	02
Revision Date:	04/16/2019
Revision By:	EAW
Approved By:	

Lockheed Martin Corporation

Attachment SOP SSDS-26-01 – Indoor Air/Ambient Air Sample Collection Log

		Indoor Air/Ambient Air Sample Collection Log	
		Sample ID:	IA-G5
Client:	Lockheed Martin Corporation	Sampling Depth:	N/A
Project:	Former Unisys Facility	Time and Date of Installation:	03/17/2020
Location:	Lake Success, NY	Miscellaneous Equipment:	N/A
Project #:	3617187442	Moisture Content:	
Samplers:	EV + EP		

Instrument Readings

Date	Time	Canister Vacuum (a) (inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (inches of Hg)	PID ~~(ppb)~~
03/17/2020	1013	-30	41.2	63	7	30.07	–
03/17/2020	1013	-10					

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1 L (6 L)
Canister ID:	SC00658
Flow Controller ID:	0A02091
Notes:	

Leak Test Information (if applicable):

leak tested

General Observations/Notes:

Duplicate taken here
IA-DUP-1

SOP Owner:	Amec E&E, PC
SOP No.:	SSDS-26
Revision No.	02
Revision Date:	04/16/2019
Revision By:	EAW
Approved By:	

Lockheed Martin Corporation

Attachment SOP SSDS-26-01 – Indoor Air/Ambient Air Sample Collection Log

		Indoor Air/Ambient Air Sample Collection Log	
		Sample ID:	IA-E10
Client:	Lockheed Martin Corporation	Sampling Depth:	N/A
Project:	Former Unisys Facility	Time and Date of Installation:	03/17/2020
Location:	Lake Success, NY	Miscellaneous Equipment:	N/A
Project #:	3617187442	Moisture Content:	
Samplers:	EV+EP		

Instrument Readings

Date	Time	Canister Vacuum (a) (inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (inches of Hg)	PID (ppb)
03/17/2020	1012	-29.5	41.2	63	7	30.07	-
03/17/2020	1436	-9					

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1 L (6 L)
Canister ID:	AS01261
Flow Controller ID:	OA01164
Notes:	

Leak Test Information (if applicable):

leak tested

General Observations/Notes:

Sub-slab point covered by turf. Air sample taken by approximate location based on map

SOP Owner:	Amec E&E, PC
SOP No.:	SSDS-26
Revision No.	02
Revision Date:	04/16/2019
Revision By:	EAW
Approved By:	

Lockheed Martin Corporation

Attachment SOP SSDS-26-01 – Indoor Air/Ambient Air Sample Collection Log

		Indoor Air/Ambient Air Sample Collection Log	
		Sample ID:	IA-D13
Client:	Lockheed Martin Corporation	Sampling Depth:	N/A
Project:	Former Unisys Facility	Time and Date of Installation:	03/17/2020
Location:	Lake Success, NY	Miscellaneous Equipment:	N/A
Project #:	3617187442	Moisture Content:	
Samplers:	EV + EP		

Instrument Readings

Date	Time	Canister Vacuum (a) (inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (inches of Hg)	PID (ppb)
03/17/2020	1017	-30	41.2	63	7	30.07	—
03/17/2020	1640	-8.5					

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1 L (6L)
Canister ID:	AC02064
Flow Controller ID:	0A00585
Notes:	

Leak Test Information (if applicable):

leak tested

General Observations/Notes:

SOP Owner:	Amec E&E, PC
SOP No.:	SSDS-26
Revision No.	02
Revision Date:	04/16/2019
Revision By:	EAW
Approved By:	

Lockheed Martin Corporation

Attachment SOP SSDS-26-01 – Indoor Air/Ambient Air Sample Collection Log

		Indoor Air/Ambient Air Sample Collection Log	
		Sample ID:	IA-F13
Client:	Lockheed Martin Corporation	Sampling Depth:	N/A
Project:	Former Unisys Facility	Time and Date of Installation:	03/17/2020
Location:	Lake Success, NY	Miscellaneous Equipment:	N/A
Project #:	3617187442	Moisture Content:	
Samplers:	EV + EP		

Instrument Readings

Date	Time	Canister Vacuum (a) (inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (inches of Hg)	PID (ppb)
03/17/2020	1016	-30	41.2	63	7	30.07	—
03/17/2020	1638	-10					

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1 L (6L)
Canister ID:	AC02077
Flow Controller ID:	0A00131
Notes:	

Leak Test Information (if applicable):

leak tested

General Observations/Notes:

Duplicate taken here IA-DUP-2

Sub-slab point covered by turf. Air sample taken by approximate location based on map

SOP Owner:	Amec E&E, PC
SOP No.:	SSDS-26
Revision No.	02
Revision Date:	04/16/2019
Revision By:	EAW
Approved By:	

Lockheed Martin Corporation

Attachment SOP SSDS-26-01 – Indoor Air/Ambient Air Sample Collection Log

		Indoor Air/Ambient Air Sample Collection Log	
		Sample ID:	IA-E16
Client:	Lockheed Martin Corporation	Sampling Depth:	N/A
Project:	Former Unisys Facility	Time and Date of Installation:	03/17/2020
Location:	Lake Success, NY	Miscellaneous Equipment:	N/A
Project #:	3617187442	Moisture Content:	
Samplers:	EV + EP		

Instrument Readings

Date	Time	Canister Vacuum (a) (inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (inches of Hg)	PID (ppb)
03/17/2020	1018	-30	41.2	63	7	30.07	—
03/17/2020	1646	-10.5					

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1 L (6 L)
Canister ID:	AS00864
Flow Controller ID:	0A02131
Notes:	

Leak Test Information (if applicable):

leak tested

General Observations/Notes:

SOP Owner:	Amec E&E, PC
SOP No.:	SSDS-26
Revision No.	02
Revision Date:	04/16/2019
Revision By:	EAW
Approved By:	

Lockheed Martin Corporation

Attachment SOP SSDS-26-01 – Indoor Air/Ambient Air Sample Collection Log

		Indoor Air/Ambient Air Sample Collection Log	
		Sample ID:	IA-G18
Client:	Lockheed Martin Corporation	Sampling Depth:	N/A
Project:	Former Unisys Facility	Time and Date of Installation:	03/17/2020
Location:	Lake Success, NY	Miscellaneous Equipment:	N/A
Project #:	3617187442	Moisture Content:	
Samplers:	EV+EP		

Instrument Readings

Date	Time	Canister Vacuum (a) (inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (inches of Hg)	PID (ppb)
03/17/2020	1018	-29.5	412	63	7	30.07	-
03/17/2020	1641	-7					

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1 L (6L)
Canister ID:	SSC00157
Flow Controller ID:	0A01101
Notes:	

Leak Test Information (if applicable):

leak tested

General Observations/Notes:

SOP Owner:	Amec E&E, PC
SOP No.:	SSDS-26
Revision No.	02
Revision Date:	04/16/2019
Revision By:	EAW
Approved By:	

Lockheed Martin Corporation

Attachment SOP SSDS-26-01 – Indoor Air/Ambient Air Sample Collection Log

		Indoor Air/Ambient Air Sample Collection Log	
		Sample ID:	IA-C20
Client:	Lockheed Martin Corporation	Sampling Depth:	N/A
Project:	Former Unisys Facility	Time and Date of Installation:	03/17/2020
Location:	Lake Success, NY	Miscellaneous Equipment:	N/A
Project #:	3617187442	Moisture Content:	
Samplers:	EV+EP		

Instrument Readings

Date	Time	Canister Vacuum (a) (inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (inches of Hg)	PID (ppb)
03/17/2020	1026	-30	41.2	63	7	30.07	—
03/17/2020	1645	-10.5					

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1 L (6 L)
Canister ID:	AC02100
Flow Controller ID:	0A01250
Notes:	

Leak Test Information (if applicable):

leak test passed

General Observations/Notes:

SOP Owner:	Amec E&E, PC
SOP No.:	SSDS-26
Revision No.	02
Revision Date:	04/16/2019
Revision By:	EAW
Approved By:	

Lockheed Martin Corporation

Attachment SOP SSDS-26-01 – Indoor Air/Ambient Air Sample Collection Log

		Indoor Air/Ambient Air Sample Collection Log	
		Sample ID:	IA-E21.5
Client:	Lockheed Martin Corporation	Sampling Depth:	N/A
Project:	Former Unisys Facility	Time and Date of Installation:	03/17/2020
Location:	Lake Success, NY	Miscellaneous Equipment:	N/A
Project #:	3617187442	Moisture Content:	
Samplers:	EV + EP		

Instrument Readings

Date	Time	Canister Vacuum (a) (inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (inches of Hg)	PID (ppb)
03/17/2020	1022	-30	41.2	63	7	30.07	—
03/17/2020	1644	-9					

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1 L (6 L)
Canister ID:	AS00827
Flow Controller ID:	0A01916
Notes:	

Leak Test Information (if applicable):

leak test passed

General Observations/Notes:

Construction Storage room
Odors present

SOP Owner:	Amec E&E, PC
SOP No.:	SSDS-26
Revision No.	02
Revision Date:	04/16/2019
Revision By:	EAW
Approved By:	

Lockheed Martin Corporation

Attachment SOP SSDS-26-01 – Indoor Air/Ambient Air Sample Collection Log

		Indoor Air/Ambient Air Sample Collection Log	
		Sample ID:	IA-H21
Client:	Lockheed Martin Corporation	Sampling Depth:	N/A
Project:	Former Unisys Facility	Time and Date of Installation:	03/17/2020
Location:	Lake Success, NY	Miscellaneous Equipment:	N/A
Project #:	3617187442	Moisture Content:	
Samplers:	EV+EP		

Instrument Readings

Date	Time	Canister Vacuum (a) (inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (inches of Hg)	PID (ppb)
03/17/2020	1020	-30	41.2	63	7	30.07	—
03/17/2020	1642	-12.5					

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1 L (6 L)
Canister ID:	AS00828
Flow Controller ID:	0A00393
Notes:	

Leak Test Information (if applicable):

leak test passed

General Observations/Notes:

SOP Owner:	Amec E&E, PC
SOP No.:	SSDS-26
Revision No.	02
Revision Date:	04/16/2019
Revision By:	EAW
Approved By:	

Lockheed Martin Corporation

Attachment SOP SSDS-26-01 – Indoor Air/Ambient Air Sample Collection Log

		Indoor Air/Ambient Air Sample Collection Log	
		Sample ID:	AA-01
Client:	Lockheed Martin Corporation	Sampling Depth:	N/A
Project:	Former Unisys Facility	Time and Date of Installation:	03/17/2020
Location:	Lake Success, NY	Miscellaneous Equipment:	N/A
Project #:	3617187442	Moisture Content:	
Samplers:	EV + EP		

Instrument Readings

Date	Time	Canister Vacuum (a) (inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (inches of Hg)	PID (ppb)
03/17/2020	1042	-30	41.2	63	7	30.07	-
03/17/2020	1652	-11					

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1 L (6 L)
Canister ID:	AS00535
Flow Controller ID:	6A01819
Notes:	

Leak Test Information (if applicable):

leak test passed

General Observations/Notes:

SOP Owner:	Amec E&E, PC
SOP No.:	SSDS-26
Revision No.	02
Revision Date:	04/16/2019
Revision By:	EAW
Approved By:	

Lockheed Martin Corporation

Attachment SOP SSDS-26-01 – Indoor Air/Ambient Air Sample Collection Log

		Indoor Air/Ambient Air Sample Collection Log	
		Sample ID:	IA-12
Client:	Lockheed Martin Corporation	Sampling Depth:	N/A
Project:	Former Unisys Facility	Time and Date of Installation:	03/17/2020
Location:	Lake Success, NY	Miscellaneous Equipment:	N/A
Project #:	3617187442	Moisture Content:	
Samplers:	EV + EP		

Instrument Readings

Date	Time	Canister Vacuum (a) (inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (inches of Hg)	PID (ppb)
03/17/2020	1015	-30	41.2	63	7	30.07	—
03/17/2020	1633	-9.5					

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1 L (6 L)
Canister ID:	SC01557
Flow Controller ID:	0400538
Notes:	

Leak Test Information (if applicable):

leak test passed

General Observations/Notes:

12:30 was found Outside, removed from basement location. Immediately put back upon discovery. Sample was in wrong spot between 10 minutes and 2 hours.

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: N/A

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** Y / N
Construction Storage Room	Permacolor Grout	25lbs	U	Does not say - Says may cause cancer and reproductive issues	N/A	N
Construction Storage Room	Rust-Oleum Semi-Gloss Protective Enamel	12oz	U	Xylene and acetone	N/A	N
Construction Storage Room	Tajima Micro Powder Chalk	0.5oz	U	Calcium carbonate, crystalline silica, aluminum oxide, titanium dioxide, ferric oxide	N/A	N
Construction Storage Room	Pro Select Super Strength Anchoring Adhesive	10.1oz	UO	dibenzoyl peroxide	N/A	N
Construction Storage Room	Gorilla Epoxy	0.85oz	UO	does not says - says may cause cancer and reproductive harm	N/A	N
Construction Storage Room	Titebond Wood Glue	16oz	U	does not say	N/A	N
Construction Storage Room	Sakrete Mortar Mix	80lbs	U	does not say - says may cause skin irritation, eye damage, etc.	N/A	N
Construction Storage Room	Shaw5000 Bio-Renewable Adhesive	4g	U	does not say - says low VOC, no alcohol no ammonia	N/A	N
Construction Storage Room	Silicone	10.1oz	U	methanol, ammonia	N/A	N
Gym	Sprayway Glass cleaner	19oz	U	2-Butoxyethanol, ethyl alcohol, liquified petroleum gas	N/A	N
Gym	Renown Stainless steel cleaner	15oz	U	Petroleum oil, hydrotreated light petroleum distillates, butane/propane blend	N/A	N
over Basement	A-100 latex acrylic paint	3 of 5 gal	U	Crystalline Silica	N/A	N
Over Basement	Roman Wallpaper Adhesive	5g	U	does not say - says no substances are hazardous to health	N/A	N
Over Basement	Polyblend Grout	2 of 25lbs	UO	does not say - says may cause skin and eye irritation	N/A	N

* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.