

# ALS Environmental

Date: 16-Mar-23

**Client:**

**Project:** Spotlight Air Environmental; 02-23-38

**Work Order:** 23021108

## Work Order Sample Summary

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<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
23021108-01	Guardian Dr. & Butzow Dr., Urbana, IL (ambient)	Air		2/24/2023 03:10	2/28/2023 10:17	<input type="checkbox"/>

## ALS Environmental

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## Case Narrative

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The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Results relate only to the items tested and are not blank corrected unless indicated.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental.

Sampling information was provided by the client.

Sample start: Feb 23, 7:10 p.m.

Sample end: Feb 24, 3:10 a.m.

# ALS Environmental

Date: 16-Mar-23

**Client:**

**Project:** Spotlight Air Environmental; 02-23-38  
**Sample ID:** Guardian Dr. & Butzow Dr., Urbana, IL (ambient)  
**Collection Date:** 2/24/2023 03:10 AM

**Work Order:** 23021108  
**Lab ID:** 23021108-01  
**Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TO-15 BY GC/MS</b>			<b>ETO-15</b>			Analyst: <b>MRJ</b>
1,1,1-Trichloroethane	ND		2.73	µg/m3	1	3/14/2023 11:47 PM
1,1,2,2-Tetrachloroethane	ND		3.43	µg/m3	1	3/14/2023 11:47 PM
1,1,2-Trichloroethane	ND		1.09	µg/m3	1	3/14/2023 11:47 PM
1,1-Dichloroethane	ND		2.02	µg/m3	1	3/14/2023 11:47 PM
1,1-Dichloroethene	ND		1.98	µg/m3	1	3/14/2023 11:47 PM
1,2,4-Trichlorobenzene	ND		3.71	µg/m3	1	3/14/2023 11:47 PM
1,2,4-Trimethylbenzene	ND		2.46	µg/m3	1	3/14/2023 11:47 PM
1,2-Dibromoethane	ND		1.54	µg/m3	1	3/14/2023 11:47 PM
1,2-Dichlorobenzene	ND		3.01	µg/m3	1	3/14/2023 11:47 PM
1,2-Dichloroethane	ND		0.809	µg/m3	1	3/14/2023 11:47 PM
1,2-Dichloropropane	ND		2.31	µg/m3	1	3/14/2023 11:47 PM
1,3,5-Trimethylbenzene	ND		2.46	µg/m3	1	3/14/2023 11:47 PM
1,3-Butadiene	ND		0.442	µg/m3	1	3/14/2023 11:47 PM
1,3-Dichlorobenzene	ND		3.01	µg/m3	1	3/14/2023 11:47 PM
1,4-Dichlorobenzene	ND		1.20	µg/m3	1	3/14/2023 11:47 PM
1,4-Dioxane	ND		3.60	µg/m3	1	3/14/2023 11:47 PM
2-Butanone	ND		2.95	µg/m3	1	3/14/2023 11:47 PM
2-Hexanone	ND		4.10	µg/m3	1	3/14/2023 11:47 PM
<b>2-Propanol</b>	<b>10.1</b>		<b>2.46</b>	<b>µg/m3</b>	1	3/14/2023 11:47 PM
4-Ethyltoluene	ND		2.46	µg/m3	1	3/14/2023 11:47 PM
4-Methyl-2-pentanone	ND		4.10	µg/m3	1	3/14/2023 11:47 PM
<b>Acetone</b>	<b>14.8</b>		<b>2.38</b>	<b>µg/m3</b>	1	3/14/2023 11:47 PM
Benzene	ND		1.60	µg/m3	1	3/14/2023 11:47 PM
Benzyl chloride	ND		5.18	µg/m3	1	3/14/2023 11:47 PM
Bromodichloromethane	ND		1.34	µg/m3	1	3/14/2023 11:47 PM
Bromoform	ND		5.17	µg/m3	1	3/14/2023 11:47 PM
Bromomethane	ND		1.94	µg/m3	1	3/14/2023 11:47 PM
Carbon disulfide	ND		1.56	µg/m3	1	3/14/2023 11:47 PM
Carbon tetrachloride	ND		3.15	µg/m3	1	3/14/2023 11:47 PM
Chlorobenzene	ND		2.30	µg/m3	1	3/14/2023 11:47 PM
Chloroethane	ND		1.32	µg/m3	1	3/14/2023 11:47 PM
Chloroform	ND		0.976	µg/m3	1	3/14/2023 11:47 PM
<b>Chloromethane</b>	<b>1.36</b>		<b>1.03</b>	<b>µg/m3</b>	1	3/14/2023 11:47 PM
cis-1,2-Dichloroethene	ND		1.98	µg/m3	1	3/14/2023 11:47 PM
cis-1,3-Dichloropropene	ND		2.27	µg/m3	1	3/14/2023 11:47 PM
Cumene	ND		2.46	µg/m3	1	3/14/2023 11:47 PM
Cyclohexane	ND		1.72	µg/m3	1	3/14/2023 11:47 PM
Dibromochloromethane	ND		4.26	µg/m3	1	3/14/2023 11:47 PM
<b>Dichlorodifluoromethane</b>	<b>2.87</b>		<b>2.47</b>	<b>µg/m3</b>	1	3/14/2023 11:47 PM

**Note:**

# ALS Environmental

Date: 16-Mar-23

**Client:**

**Project:** Spotlight Air Environmental; 02-23-38  
**Sample ID:** Guardian Dr. & Butzow Dr., Urbana, IL (ambient)  
**Collection Date:** 2/24/2023 03:10 AM

**Work Order:** 23021108  
**Lab ID:** 23021108-01  
**Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	ND		1.80	µg/m3	1	3/14/2023 11:47 PM
Ethylbenzene	ND		2.17	µg/m3	1	3/14/2023 11:47 PM
Freon 113	ND		3.83	µg/m3	1	3/14/2023 11:47 PM
Freon 114	ND		3.50	µg/m3	1	3/14/2023 11:47 PM
Heptane	ND		2.05	µg/m3	1	3/14/2023 11:47 PM
Hexachlorobutadiene	ND		2.13	µg/m3	1	3/14/2023 11:47 PM
Hexane	ND		1.76	µg/m3	1	3/14/2023 11:47 PM
m,p-Xylene	ND		2.17	µg/m3	1	3/14/2023 11:47 PM
Methylene chloride	ND		7.00	µg/m3	1	3/14/2023 11:47 PM
MTBE	ND		1.80	µg/m3	1	3/14/2023 11:47 PM
Naphthalene	ND		1.05	µg/m3	1	3/14/2023 11:47 PM
o-Xylene	ND		2.17	µg/m3	1	3/14/2023 11:47 PM
Propene	ND		0.861	µg/m3	1	3/14/2023 11:47 PM
Styrene	ND		2.13	µg/m3	1	3/14/2023 11:47 PM
Tetrachloroethene	ND		3.39	µg/m3	1	3/14/2023 11:47 PM
Tetrahydrofuran	ND		1.47	µg/m3	1	3/14/2023 11:47 PM
<b>Toluene</b>	<b>8.06</b>		<b>1.88</b>	<b>µg/m3</b>	1	3/14/2023 11:47 PM
trans-1,2-Dichloroethene	ND		1.98	µg/m3	1	3/14/2023 11:47 PM
trans-1,3-Dichloropropene	ND		2.27	µg/m3	1	3/14/2023 11:47 PM
Trichloroethene	ND		1.07	µg/m3	1	3/14/2023 11:47 PM
Trichlorofluoromethane	ND		2.81	µg/m3	1	3/14/2023 11:47 PM
Vinyl acetate	ND		3.52	µg/m3	1	3/14/2023 11:47 PM
Vinyl chloride	ND		1.28	µg/m3	1	3/14/2023 11:47 PM
Surr: Bromofluorobenzene	105		60-140	%REC	1	3/14/2023 11:47 PM

**Note:**

Batch ID: **R214308**      Instrument ID **VMS4**      Method: **ETO-15**

MBLK		Sample ID: <b>MBLK-R214308</b>				Units: <b>ppbv</b>		Analysis Date: <b>3/14/2023 05:52 PM</b>			
Client ID:		Run ID: <b>VMS4_230314A</b>		SeqNo: <b>2992483</b>		Prep Date:		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,1,1-Trichloroethane	ND	0.50									
1,1,2,2-Tetrachloroethane	ND	0.50									
1,1,2-Trichloroethane	ND	0.20									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	0.50									
1,2,4-Trichlorobenzene	ND	0.50									
1,2,4-Trimethylbenzene	ND	0.50									
1,2-Dibromoethane	ND	0.20									
1,2-Dichlorobenzene	ND	0.50									
1,2-Dichloroethane	ND	0.20									
1,2-Dichloropropane	ND	0.50									
1,3,5-Trimethylbenzene	ND	0.50									
1,3-Butadiene	ND	0.20									
1,3-Dichlorobenzene	ND	0.50									
1,4-Dichlorobenzene	ND	0.20									
1,4-Dioxane	ND	1.0									
2-Butanone	ND	1.0									
2-Hexanone	ND	1.0									
2-Propanol	ND	1.0									
4-Ethyltoluene	ND	0.50									
4-Methyl-2-pentanone	ND	1.0									
Acetone	ND	1.0									
Benzene	ND	0.50									
Benzyl chloride	ND	1.0									
Bromodichloromethane	ND	0.20									
Bromoform	ND	0.50									
Bromomethane	ND	0.50									
Carbon disulfide	ND	0.50									
Carbon tetrachloride	ND	0.50									
Chlorobenzene	ND	0.50									
Chloroethane	ND	0.50									
Chloroform	ND	0.20									
Chloromethane	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
cis-1,3-Dichloropropene	ND	0.50									
Cumene	ND	0.50									
Cyclohexane	ND	0.50									
Dibromochloromethane	ND	0.50									
Dichlorodifluoromethane	ND	0.50									
Ethyl acetate	ND	0.50									
Ethylbenzene	ND	0.50									

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:****QC BATCH REPORT****Work Order:** 23021108**Project:** Spotlight Air Environmental; 02-23-38

Batch ID: <b>R214308</b>	Instrument ID <b>VMS4</b>	Method: <b>ETO-15</b>						
Freon 113	ND	0.50						
Freon 114	ND	0.50						
Heptane	ND	0.50						
Hexachlorobutadiene	ND	0.20						
Hexane	ND	0.50						
m,p-Xylene	ND	0.50						
Methylene chloride	ND	2.0						
MTBE	ND	0.50						
Naphthalene	ND	0.20						
o-Xylene	ND	0.50						
Propene	ND	0.50						
Styrene	ND	0.50						
Tetrachloroethene	ND	0.50						
Tetrahydrofuran	ND	0.50						
Toluene	ND	0.50						
trans-1,2-Dichloroethene	ND	0.50						
trans-1,3-Dichloropropene	ND	0.50						
Trichloroethene	ND	0.20						
Trichlorofluoromethane	ND	0.50						
Vinyl acetate	ND	1.0						
Vinyl chloride	ND	0.50						
<i>Surr: Bromofluorobenzene</i>	<b>8.33</b>	<b>0</b>	<b>10</b>	<b>0</b>	<b>83.3</b>	<b>60-140</b>	<b>0</b>	

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

## Client:

Work Order: 23021108

Project: Spotlight Air Environmental; 02-23-38

## QC BATCH REPORT

Batch ID: R214308

Instrument ID VMS4

Method: ETO-15

LCS		Sample ID: LCS-R214308				Units: ppbv		Analysis Date: 3/14/2023 05:08 PM		
Client ID:		Run ID: VMS4_230314A			SeqNo: 2992482		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	11.45	0.50	10	0	114	58.8-163	0			
1,1,2,2-Tetrachloroethane	12.12	0.50	10	0	121	60-140	0			
1,1,2-Trichloroethane	12.52	0.20	10	0	125	60-140	0			
1,1-Dichloroethane	11.7	0.50	10	0	117	60-140	0			
1,1-Dichloroethene	11.37	0.50	10	0	114	60-140	0			
1,2,4-Trichlorobenzene	8.37	0.50	10	0	83.7	49.3-150	0			
1,2,4-Trimethylbenzene	11.7	0.50	10	0	117	50.1-162	0			
1,2-Dibromoethane	12.4	0.20	10	0	124	60-140	0			
1,2-Dichlorobenzene	11.38	0.50	10	0	114	41.9-141	0			
1,2-Dichloroethane	11.66	0.20	10	0	117	60-140	0			
1,2-Dichloropropane	12.11	0.50	10	0	121	60-140	0			
1,3,5-Trimethylbenzene	12.11	0.50	10	0	121	60-140	0			
1,3-Butadiene	9.96	0.20	10	0	99.6	50.6-140	0			
1,3-Dichlorobenzene	12.03	0.50	10	0	120	60-140	0			
1,4-Dichlorobenzene	11.8	0.20	10	0	118	55.1-145	0			
1,4-Dioxane	11.32	1.0	10	0	113	60-140	0			
2-Butanone	12.17	1.0	10	0	122	60-140	0			
2-Hexanone	10.38	1.0	10	0	104	56.2-162	0			
2-Propanol	10.68	1.0	10	0	107	60-140	0			
4-Ethyltoluene	11.98	0.50	10	0	120	60-140	0			
4-Methyl-2-pentanone	10.95	1.0	10	0	110	60-140	0			
Acetone	9.01	1.0	10	0	90.1	60-140	0			
Benzene	11.78	0.50	10	0	118	60-140	0			
Benzyl chloride	11.15	1.0	10	0	112	31.9-174	0			
Bromodichloromethane	12.37	0.20	10	0	124	60-140	0			
Bromoform	11.58	0.50	10	0	116	60-140	0			
Bromomethane	13.55	0.50	10	0	136	60-140	0			
Carbon disulfide	11.96	0.50	10	0	120	60-140	0			
Carbon tetrachloride	11.55	0.50	10	0	116	60-140	0			
Chlorobenzene	11.53	0.50	10	0	115	60-140	0			
Chloroethane	11.93	0.50	10	0	119	60-140	0			
Chloroform	12.02	0.20	10	0	120	60-140	0			
Chloromethane	10.88	0.50	10	0	109	60-140	0			
cis-1,2-Dichloroethene	11.98	0.50	10	0	120	60-140	0			
cis-1,3-Dichloropropene	11.95	0.50	10	0	120	60-140	0			
Cumene	12.09	0.50	10	0	121	60-140	0			
Cyclohexane	11.17	0.50	10	0	112	60-140	0			
Dibromochloromethane	12.12	0.50	10	0	121	60-140	0			
Dichlorodifluoromethane	11.85	0.50	10	0	118	60-140	0			
Ethyl acetate	11.1	0.50	10	0	111	60-140	0			
Ethylbenzene	11.69	0.50	10	0	117	60-140	0			
Freon 113	11.92	0.50	10	0	119	60-140	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client:

# QC BATCH REPORT

Work Order: 23021108

Project: Spotlight Air Environmental; 02-23-38

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Batch ID: <b>R214308</b>	Instrument ID <b>VMS4</b>	Method: <b>ETO-15</b>						
Freon 114	12.06	0.50	10	0	121	60-140	0	
Heptane	10.21	0.50	10	0	102	60-140	0	
Hexachlorobutadiene	8.76	0.20	10	0	87.6	60-140	0	
Hexane	10.8	0.50	10	0	108	60-140	0	
m,p-Xylene	24.25	0.50	20	0	121	60-140	0	
Methylene chloride	10.53	2.0	10	0	105	60-140	0	
MTBE	10.78	0.50	10	0	108	60.8-151	0	
Naphthalene	7.65	0.20	10	0	76.5	53.1-152	0	
o-Xylene	11.85	0.50	10	0	118	60-140	0	
Propene	10.11	0.50	10	0	101	34.4-139	0	
Styrene	12.35	0.50	10	0	124	60-140	0	
Tetrachloroethene	12.17	0.50	10	0	122	60-140	0	
Tetrahydrofuran	10.35	0.50	10	0	104	60-140	0	
Toluene	12.42	0.50	10	0	124	60-140	0	
trans-1,2-Dichloroethene	11.94	0.50	10	0	119	60-140	0	
trans-1,3-Dichloropropene	12.12	0.50	10	0	121	60-140	0	
Trichloroethene	12.02	0.20	10	0	120	60-140	0	
Trichlorofluoromethane	11.7	0.50	10	0	117	60-140	0	
Vinyl acetate	10.84	1.0	10	0	108	48.4-145	0	
Vinyl chloride	12.46	0.50	10	0	125	60-140	0	
<i>Surr: Bromofluorobenzene</i>	<i>10.26</i>	<i>0</i>	<i>10</i>	<i>0</i>	<i>103</i>	<i>60-140</i>	<i>0</i>	

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The following samples were analyzed in this batch: 23021108-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



# ALS Environmental

Date: 16-Mar-23

**Client:**

**Project:** Spotlight Air Environmental; 02-23-38

**WorkOrder:** 23021108

## QUALIFIERS, ACRONYMS, UNITS

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<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SDL	Sample Detection Limit
SW	SW-846 Method

<u>Units Reported</u>	<u>Description</u>
µg/m <sup>3</sup>	
ppbv	