

ALS Environmental

Date: 14-May-24

Client:

Project: Spotlight Air Environmental

Work Order: 24041518

Work Order Sample Summary

<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>
24041518-01	Goodwin and Hill; Urbana IL (Indoor)	Air	109148	4/25/2024 22:17	4/30/2024 11:04	<input type="checkbox"/>

ALS Environmental

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Case Narrative

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.

Start: April 25, 10:47 p.m.

End: April 26, 6:47 a.m.

ALS Environmental

Date: 14-May-24

Client:

Project: Spotlight Air Environmental

Work Order: 24041518

Sample ID: Goodwin and Hill; Urbana IL (Indoor)

Lab ID: 24041518-01

Collection Date: 4/25/2024 10:17 PM

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TO-15 BY GC/MS			ETO-15			Analyst: EMC
1,1,1-Trichloroethane	ND		2.73	µg/m3	1	5/6/2024 11:46 AM
1,1,2,2-Tetrachloroethane	ND		3.43	µg/m3	1	5/6/2024 11:46 AM
1,1,2-Trichloroethane	ND		1.09	µg/m3	1	5/6/2024 11:46 AM
1,1-Dichloroethane	ND		2.02	µg/m3	1	5/6/2024 11:46 AM
1,1-Dichloroethene	ND		1.98	µg/m3	1	5/6/2024 11:46 AM
1,2,4-Trichlorobenzene	ND		3.71	µg/m3	1	5/6/2024 11:46 AM
1,2,4-Trimethylbenzene	ND		2.46	µg/m3	1	5/6/2024 11:46 AM
1,2-Dibromoethane	ND		1.54	µg/m3	1	5/6/2024 11:46 AM
1,2-Dichlorobenzene	ND		3.01	µg/m3	1	5/6/2024 11:46 AM
1,2-Dichloroethane	ND		0.809	µg/m3	1	5/6/2024 11:46 AM
1,2-Dichloropropane	ND		2.31	µg/m3	1	5/6/2024 11:46 AM
1,3,5-Trimethylbenzene	ND		2.46	µg/m3	1	5/6/2024 11:46 AM
1,3-Butadiene	ND		0.442	µg/m3	1	5/6/2024 11:46 AM
1,3-Dichlorobenzene	ND		3.01	µg/m3	1	5/6/2024 11:46 AM
1,4-Dichlorobenzene	ND		1.20	µg/m3	1	5/6/2024 11:46 AM
1,4-Dioxane	ND		1.80	µg/m3	1	5/6/2024 11:46 AM
2-Butanone	3.62		2.95	µg/m3	1	5/6/2024 11:46 AM
2-Hexanone	ND		4.10	µg/m3	1	5/6/2024 11:46 AM
2-Propanol	40.8		2.46	µg/m3	1	5/6/2024 11:46 AM
4-Ethyltoluene	ND		2.46	µg/m3	1	5/6/2024 11:46 AM
4-Methyl-2-pentanone	ND		4.10	µg/m3	1	5/6/2024 11:46 AM
Acetone	121	E	2.38	µg/m3	1	5/6/2024 11:46 AM
Benzene	ND		1.60	µg/m3	1	5/6/2024 11:46 AM
Benzyl chloride	ND		2.55	µg/m3	1	5/6/2024 11:46 AM
Bromodichloromethane	ND		1.34	µg/m3	1	5/6/2024 11:46 AM
Bromoform	ND		5.17	µg/m3	1	5/6/2024 11:46 AM
Bromomethane	ND		1.94	µg/m3	1	5/6/2024 11:46 AM
Carbon disulfide	ND		1.56	µg/m3	1	5/6/2024 11:46 AM
Carbon tetrachloride	ND		3.15	µg/m3	1	5/6/2024 11:46 AM
Chlorobenzene	ND		2.30	µg/m3	1	5/6/2024 11:46 AM
Chloroethane	ND		1.32	µg/m3	1	5/6/2024 11:46 AM
Chloroform	1.24		0.976	µg/m3	1	5/6/2024 11:46 AM
Chloromethane	ND		1.03	µg/m3	1	5/6/2024 11:46 AM
cis-1,2-Dichloroethene	ND		1.98	µg/m3	1	5/6/2024 11:46 AM
cis-1,3-Dichloropropene	ND		2.27	µg/m3	1	5/6/2024 11:46 AM
Cumene	ND		2.46	µg/m3	1	5/6/2024 11:46 AM
Cyclohexane	ND		1.72	µg/m3	1	5/6/2024 11:46 AM
Dibromochloromethane	ND		4.26	µg/m3	1	5/6/2024 11:46 AM
Dichlorodifluoromethane	ND		2.47	µg/m3	1	5/6/2024 11:46 AM

Note:

ALS Environmental

Date: 14-May-24

Client:

Project: Spotlight Air Environmental
Sample ID: Goodwin and Hill; Urbana IL (Indoor)
Collection Date: 4/25/2024 10:17 PM

Work Order: 24041518
Lab ID: 24041518-01
Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	ND		1.80	µg/m3	1	5/6/2024 11:46 AM
Ethylbenzene	ND		2.17	µg/m3	1	5/6/2024 11:46 AM
Freon 113	ND		3.83	µg/m3	1	5/6/2024 11:46 AM
Freon 114	ND		3.50	µg/m3	1	5/6/2024 11:46 AM
Heptane	ND		2.05	µg/m3	1	5/6/2024 11:46 AM
Hexachlorobutadiene	ND		2.13	µg/m3	1	5/6/2024 11:46 AM
Hexane	2.52		1.76	µg/m3	1	5/6/2024 11:46 AM
m,p-Xylene	3.04		2.17	µg/m3	1	5/6/2024 11:46 AM
Methylene chloride	ND		7.00	µg/m3	1	5/6/2024 11:46 AM
MTBE	ND		1.80	µg/m3	1	5/6/2024 11:46 AM
Naphthalene	ND		1.05	µg/m3	1	5/6/2024 11:46 AM
o-Xylene	ND		2.17	µg/m3	1	5/6/2024 11:46 AM
Propene	ND		0.861	µg/m3	1	5/6/2024 11:46 AM
Styrene	ND		2.13	µg/m3	1	5/6/2024 11:46 AM
Tetrachloroethene	3.60		3.39	µg/m3	1	5/6/2024 11:46 AM
Tetrahydrofuran	ND		1.47	µg/m3	1	5/6/2024 11:46 AM
Toluene	13.8		1.88	µg/m3	1	5/6/2024 11:46 AM
trans-1,2-Dichloroethene	ND		1.98	µg/m3	1	5/6/2024 11:46 AM
trans-1,3-Dichloropropene	ND		2.27	µg/m3	1	5/6/2024 11:46 AM
Trichloroethene	ND		1.07	µg/m3	1	5/6/2024 11:46 AM
Trichlorofluoromethane	ND		2.81	µg/m3	1	5/6/2024 11:46 AM
Vinyl acetate	ND		3.52	µg/m3	1	5/6/2024 11:46 AM
Vinyl chloride	ND		1.28	µg/m3	1	5/6/2024 11:46 AM
Surr: Bromofluorobenzene	104		60-140	%REC	1	5/6/2024 11:46 AM

Note:

Batch ID: **R229250** Instrument ID **VMS7** Method: **ETO-15**

MBLK		Sample ID: MBLK-R229250			Units: ppbv		Analysis Date: 5/6/2024 10:37 AM			
Client ID:		Run ID: VMS7_240506A			SeqNo: 3381867		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	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	0.50								
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	0.50								
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:
Work Order: 24041518
Project: Spotlight Air Environmental

QC BATCH REPORT

Batch ID: R229250	Instrument ID VMS7	Method: ETO-15					
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	0.14	0.20					J
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>	<i>10.28</i>	<i>0</i>	<i>10</i>	<i>0</i>	<i>103</i>	<i>60-140</i>	<i>0</i>

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

Client:

QC BATCH REPORT

Work Order: 24041518

Project: Spotlight Air Environmental

Batch ID: **R229250**

Instrument ID **VMS7**

Method: **ETO-15**

LCS		Sample ID: LCS-R229250				Units: ppbv		Analysis Date: 5/6/2024 09:49 AM		
Client ID:		Run ID: VMS7_240506A			SeqNo: 3381866		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	8.234	0.50	10	0	82.3	58.8-163	0			
1,1,2,2-Tetrachloroethane	8.51	0.50	10	0	85.1	60-140	0			
1,1,2-Trichloroethane	8.877	0.20	10	0	88.8	60-140	0			
1,1-Dichloroethane	8.356	0.50	10	0	83.6	60-140	0			
1,1-Dichloroethene	8.555	0.50	10	0	85.6	60-140	0			
1,2,4-Trichlorobenzene	5.26	0.50	10	0	52.6	49.3-150	0			
1,2,4-Trimethylbenzene	8.006	0.50	10	0	80.1	50.1-162	0			
1,2-Dibromoethane	9.418	0.20	10	0	94.2	60-140	0			
1,2-Dichlorobenzene	6.813	0.50	10	0	68.1	41.9-141	0			
1,2-Dichloroethane	8.331	0.20	10	0	83.3	60-140	0			
1,2-Dichloropropane	8.478	0.50	10	0	84.8	60-140	0			
1,3,5-Trimethylbenzene	8.03	0.50	10	0	80.3	60-140	0			
1,3-Butadiene	9.038	0.20	10	0	90.4	50.6-140	0			
1,3-Dichlorobenzene	6.628	0.50	10	0	66.3	60-140	0			
1,4-Dichlorobenzene	6.194	0.20	10	0	61.9	55.1-145	0			
1,4-Dioxane	7.384	0.50	10	0	73.8	60-140	0			
2-Butanone	8.592	1.0	10	0	85.9	60-140	0			
2-Hexanone	10.42	1.0	10	0	104	56.2-162	0			
2-Propanol	6.719	1.0	10	0	67.2	60-140	0			
4-Ethyltoluene	8.051	0.50	10	0	80.5	60-140	0			
4-Methyl-2-pentanone	10.2	1.0	10	0	102	60-140	0			
Acetone	9.326	1.0	10	0	93.3	60-140	0			
Benzene	8.151	0.50	10	0	81.5	60-140	0			
Benzyl chloride	6.947	0.50	10	0	69.5	31.9-174	0			
Bromodichloromethane	9.022	0.20	10	0	90.2	60-140	0			
Bromoform	7.852	0.50	10	0	78.5	60-140	0			
Bromomethane	9.716	0.50	10	0	97.2	60-140	0			
Carbon disulfide	8.944	0.50	10	0	89.4	60-140	0			
Carbon tetrachloride	8.014	0.50	10	0	80.1	60-140	0			
Chlorobenzene	6.86	0.50	10	0	68.6	60-140	0			
Chloroethane	8.547	0.50	10	0	85.5	60-140	0			
Chloroform	8.16	0.20	10	0	81.6	60-140	0			
Chloromethane	8.854	0.50	10	0	88.5	60-140	0			
cis-1,2-Dichloroethene	8.473	0.50	10	0	84.7	60-140	0			
cis-1,3-Dichloropropene	10.15	0.50	10	0	102	60-140	0			
Cumene	7.809	0.50	10	0	78.1	60-140	0			
Cyclohexane	7.949	0.50	10	0	79.5	60-140	0			
Dibromochloromethane	9.572	0.50	10	0	95.7	60-140	0			
Dichlorodifluoromethane	8.522	0.50	10	0	85.2	60-140	0			
Ethyl acetate	8.408	0.50	10	0	84.1	60-140	0			
Ethylbenzene	7.361	0.50	10	0	73.6	60-140	0			
Freon 113	8.169	0.50	10	0	81.7	60-140	0			

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

Client:

QC BATCH REPORT

Work Order: 24041518

Project: Spotlight Air Environmental

Batch ID: R229250	Instrument ID VMS7	Method: ETO-15						
Freon 114	7.78	0.50	10	0	77.8	60-140	0	
Heptane	9.146	0.50	10	0	91.5	60-140	0	
Hexachlorobutadiene	7.194	0.20	10	0	71.9	60-140	0	
Hexane	8.926	0.50	10	0	89.3	60-140	0	
m,p-Xylene	15.16	0.50	20	0	75.8	60-140	0	
Methylene chloride	8.244	2.0	10	0	82.4	60-140	0	
MTBE	8.527	0.50	10	0	85.3	60.8-151	0	
Naphthalene	5.482	0.20	10	0	54.8	53.1-152	0	
o-Xylene	7.801	0.50	10	0	78	60-140	0	
Propene	8.787	0.50	10	0	87.9	34.4-139	0	
Styrene	8.346	0.50	10	0	83.5	60-140	0	
Tetrachloroethene	8.179	0.50	10	0	81.8	60-140	0	
Tetrahydrofuran	8.883	0.50	10	0	88.8	60-140	0	
Toluene	8.687	0.50	10	0	86.9	60-140	0	
trans-1,2-Dichloroethene	8.029	0.50	10	0	80.3	60-140	0	
trans-1,3-Dichloropropene	9.679	0.50	10	0	96.8	60-140	0	
Trichloroethene	8.023	0.20	10	0	80.2	60-140	0	
Trichlorofluoromethane	8.228	0.50	10	0	82.3	60-140	0	
Vinyl acetate	9.342	1.0	10	0	93.4	48.4-145	0	
Vinyl chloride	8.621	0.50	10	0	86.2	60-140	0	
<i>Surr: Bromofluorobenzene</i>	<i>8.454</i>	<i>0</i>	<i>10</i>	<i>0</i>	<i>84.5</i>	<i>60-140</i>	<i>0</i>	

The following samples were analyzed in this batch: 24041518-01A

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

Client:
Project: Spotlight Air Environmental
WorkOrder: 24041518

**QUALIFIERS,
 ACRONYMS, UNITS**

<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/m3	
ppbv	

Sample Receipt Checklist

Client Name: _____ Date/Time Received: **30-Apr-24 11:04**
 Work Order: **24041518** Received by: **CA**

Checklist completed by **Alec Bolender** 30-Apr-24 Reviewed by: _____
eSignature Date eSignature Date

Matrices: air
 Carrier name: FedEx

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No
- Sample(s) received on ice? Yes No
- Temperature(s)/Thermometer(s): _____
- Cooler(s)/Kit(s): _____
- Date/Time sample(s) sent to storage: _____
- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH acceptable upon receipt? Yes No N/A
- pH adjusted? Yes No N/A
- pH adjusted by: _____

Login Notes:

Client Contacted: _____ Date Contacted: _____ Person Contacted: _____
 Contacted By: _____ Regarding: _____

Comments:

CorrectiveAction: