

COMPREHENSIVE VALIDATION PACKAGE

ATL Applications

INVENTORY SHEET

WORK ORDER # 0909122A

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Completed by:

Kara McKiernan

(Signature)

Kara McKiernan/ Document Control

(Print Name & Title)

09/21/09

(Date)

WORK ORDER #: 0909122A

Work Order Summary

CLIENT:	Mr. Taeko Minegishi Environmental Health & Engineering, Inc. 117 Fourth Avenue Needham, MA 02494	BILL TO:	Accounts Payable Environmental Health & Engineering, Inc. 117 Fourth Avenue Needham, MA 02494
PHONE:	800-825-5343	P.O. #	16512
FAX:	781-247-4305	PROJECT #	16512
DATE RECEIVED:	09/04/2009	CONTACT:	Ausha Scott
DATE COMPLETED:	09/17/2009		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>
01A	100776	ATL Applications
02A	100777	ATL Applications
03A	100778	ATL Applications
03AA	100778 Lab Duplicate	ATL Applications
04A	100779	ATL Applications
05A	100780	ATL Applications
06A	100781	ATL Applications
07A	102434	ATL Applications
08A	102435	ATL Applications
09A	102436	ATL Applications
09AA	102436 Lab Duplicate	ATL Applications
10A	102437	ATL Applications
11A	102438	ATL Applications
12A	102439	ATL Applications
13A	102403	ATL Applications
14A	102404	ATL Applications
15A	102405	ATL Applications

Continued on next page

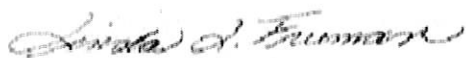
WORK ORDER #: 0909122A

Work Order Summary

CLIENT:	Mr. Taeko Minegishi Environmental Health & Engineering, Inc. 117 Fourth Avenue Needham, MA 02494	BILL TO:	Accounts Payable Environmental Health & Engineering, Inc. 117 Fourth Avenue Needham, MA 02494
PHONE:	800-825-5343	P.O. #	16512
FAX:	781-247-4305	PROJECT #	16512
DATE RECEIVED:	09/04/2009	CONTACT:	Ausha Scott
DATE COMPLETED:	09/17/2009		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>
16A	102406	ATL Applications
17A	Method Blank	ATL Applications
17B	Method Blank	ATL Applications
17C	Method Blank	ATL Applications
18A	CCV	ATL Applications

CERTIFIED BY:



Laboratory Director

DATE: 09/17/09

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

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

**LABORATORY NARRATIVE
Ozone by Radiello 172
Environmental Health & Engineering, Inc.
Workorder# 0909122A**

Sixteen Radiello 172 (Ozone) samples were received on September 04, 2009. The procedure involves reaction of 4-pyridylaldehyde with 3-methyl-2-benzothiazolinone hydrazone to yield the corresponding azide. The absorbance is then measured at 430 nm using a spectrophotometer. Results are reported in uG and uG/m3.

Sampling rate of 24.6 mL/min was provided by the manufacturer.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Results were calculated based on 25 deg C without temperature correction. The actual exposure time was used to calculate sample concentrations and reporting limits.

An exposure time of 21600 minutes was used for the QC samples.

All media used for the sampling were supplied by the client. Blank subtraction was not performed on the sample results since the media used for Method Blanks may be from a different lot than the media used for the samples.

Definition of Data Qualifying Flags

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

- B - Compound present in laboratory blank greater than reporting limit.
- J - Estimated value.
- E - Exceeds instrument calibration range.
- S - Saturated peak.
- Q - Exceeds quality control limits.
- U - Compound analyzed for but not detected above the detection limit.
- M - Reported value may be biased due to apparent matrix interferences.
- N - The identification is based on presumptive evidence.

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

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue

Sample Results and Raw Data

AIR TOXICS LTD.

ATL Application # 62 for RAD 172 (Ozone)

Spectrophotometer

Field Sample ID.	Lab Sample ID.	Collection Date	Analysis Date	Dilution Factor	Reporting Limit (ug)	Reporting Limit (ug/m3)	Amount (ug)	Amount (ug/m3)	
100776	0909122A-01A	9/1/2009	9/4/2009	1.00	0.64	1.2	ND	ND	
100777	0909122A-02A	9/1/2009	9/4/2009	1.00	0.64	1.2	ND	ND	
100778	0909122A-03A	9/1/2009	9/4/2009	1.00	0.64	1.2	8.8	17	
100778 Duplicate	0909122A-03AA	9/1/2009	9/4/2009	1.00	0.64	1.2	8.9	17	
100779	0909122A-04A	9/1/2009	9/4/2009	1.00	0.64	1.2	ND	ND	
100780	0909122A-05A	9/1/2009	9/4/2009	1.00	0.64	1.2	ND	ND	
100781	0909122A-06A	NA	9/4/2009	1.00	0.6	1.2	ND	ND	
102434	0909122A-07A	9/1/2009	9/4/2009	1.00	0.64	1.3	ND	ND	
102435	0909122A-08A	9/1/2009	9/4/2009	1.00	0.64	1.3	ND	ND	
102436	0909122A-09A	9/1/2009	9/4/2009	1.00	0.64	1.3	9.8	20	
102436 Duplicate	0909122A-09AA	9/1/2009	9/4/2009	1.00	0.64	1.3	9.9	20	
102437	0909122A-10A	9/1/2009	9/4/2009	1.00	0.6	1.3	ND	ND	
102438	0909122A-11A	9/1/2009	9/4/2009	1.00	0.64	1.3	ND	ND	
102439	0909122A-12A	NA	9/4/2009	1.00	0.64	1.2	ND	ND	
102403	0909122A-13A	9/1/2009	9/4/2009	1.00	0.64	1.4	ND	ND	
102404	0909122A-14A	9/1/2009	9/4/2009	1.00	0.64	1.4	ND	ND	
102405	0909122A-15A	9/1/2009	9/4/2009	1.00	0.64	1.4	9.5	21	
102406	0909122A-16A	9/1/2009	9/4/2009	1.00	0.64	1.4	ND	ND	
Method Blank	0909122A-17A	NA	9/4/2009	1.00	0.64	1.2	ND	ND	
Method Blank	0909122A-17B	NA	9/4/2009	1.00	0.64	1.2	ND	ND	
Method Blank	0909122A-17C	NA	9/4/2009	1.00	0.64	1.2	ND	ND	
CCV	0909122A-18A	NA	9/4/2009	1.00	0.64	1.2			
								%Rec	101

COMMENTS: 1. NA=Not Applicable

2. ND=Not Detected

3. Exposure time of 21600 minutes was assumed for the QC samples.

4. Background subtraction not performed.

Ozone Radiello Calculation Worksheet

Workorder #: 0909122A

Sampling Rate (ml/min)) 24.6 Typically 24.6 for Ozone

Sampling T (deg C) 25 Typically 25

Volume (ml) 5 Typically 5 for Ozone

Date of Analysis: 9/4/2009

(Abs-Y-int)xDF

Slope

Conc (ug) x 1000000

Q x Duration

Low PointbDF

LabSampleID	Client	Date of Collection	Abs	Duration (min)	DF	Ozone Conc (ug)	Conc (ug/m3)	RI(ug)
01A	100776	9/1/2009	0.048	21600	1.00	0.205609332	0.387	0.638
02A	100777	9/1/2009	0.038	21600	1.00	0.117904748	0.222	0.638
03A	100778	9/1/2009	1.034	21600	1.00	8.853301227	16.662	0.638
03AA	100778 Duplicate	9/1/2009	1.035	21600	1.00	8.862071705	16.678	0.638
04A	100779	9/1/2009	0.038	21600	1.00	0.117904748	0.222	0.638
05A	100780	9/1/2009	0.045	21600	1.00	0.179298097	0.337	0.638
06A	100781	NA	0.038	21600	1.00	0.117904748	0.222	0.638
07A	102434	9/1/2009	0.054	20160	1.00	0.258232403	0.521	0.638
08A	102435	9/1/2009	0.045	20160	1.00	0.179298097	0.362	0.638
09A	102436	9/1/2009	1.148	20160	1.00	9.853135764	19.868	0.638
09AA	102436 Duplicate	9/1/2009	1.150	20160	1.00	9.870676721	19.903	0.638
10A	102437	9/1/2009	0.049	20160	1.00	0.214380011	0.432	0.638
11A	102438	9/1/2009	0.064	20160	1.00	0.345937187	0.698	0.638
12A	102439	NA	0.032	21600	1.00	0.065281878	0.123	0.638
13A	102403	9/1/2009	0.066	18720	1.00	0.365478143	0.789	0.638
14A	102404	9/1/2009	0.053	18720	1.00	0.249461924	0.542	0.638
15A	102405	9/1/2009	1.108	18720	1.00	9.507316628	20.634	0.638
16A	102406	9/1/2009	0.042	18720	1.00	0.152986662	0.332	0.638
17A	Method Blank	NA	0.028	21600	1.00	-0.215373431	#DN/0!	0.638
17B	Method Blank	NA	0.026	21600	1.00	-0.215373431	#DN/0!	0.638
17C	Method Blank	NA	0.024	21600	1.00	-0.215373431	#DN/0!	0.638
18A	CCV	NA	0.760	21600	1.00	6.450190148	12.139	0.638

QC Duration
21600

CCV Spike Amt
6.384

RL (ug) x 1000000
Q x Duration

Calibration Data
Date of Calibration
9/4/2009 Linear Regression

4-PA
ug/ml*0.224*0.5ml

Slope 0.114018866
Y-int 0.024556634
R2 0.999738139

RL (ug/m3)	Result (ug)	Result (ug/m3)	%Rec	4-PA ug/ml	Ozone ug	absorbance
1.201	ND	ND		0	0	0
1.201	ND	ND		5.7	0.6384	0.092
1.201	8.853301227	16.66158768		11.4	1.2768	0.166
1.201	8.862071705	16.67809339		22.8	2.5536	0.317
1.201	ND	ND		57	6.384	0.768
1.201	ND	ND		114	12.768	1.473
1.201	ND	ND				
1.201	ND	ND				
1.287	ND	ND				
1.287	9.853135764	19.86775665				
1.287	9.870676721	19.90312605				
1.287	ND	ND				
1.287	ND	ND				
1.201	ND	ND				
1.386	ND	ND				
1.386	ND	ND				
1.386	9.502316628	20.63424325				
1.386	ND	ND				
#DNV/01	ND	#DNV/01				
#DNV/01	ND	#DNV/01				
#DNV/01	ND	#DNV/01				
#DNV/01	ND	#DNV/01				
1.201	ND	ND				
1.201	ND	ND				
1.201	ND	ND				
1.201	6.450190148	12.1390209	%Rec 101			

hand entry

QC Results and Raw Data

Spectrophotometer Logbook

@Air Toxics Ltd.

Log Book #: 1564

Work Order: 0909122A

Date: 9/10/09

Method: Rad 172

Analyst: A. Toyama

Wavelength: 430 nm

Prep. Notes:

Standard ID	Concentration	ABS
1858 -30 -5.7	5.7% / mL	0.092
↓ -11.4	11.4 ↓	0.166
↓ -22.8	22.8 ↓	0.317
↓ -57	57 ↓	0.768
↓ -114	114 ↓	1.473

r = 0.9997
 m = 0.11401
 b = 0.02458

Fraction	Dilution	ABS	Sample ID	Sample Volume
01A	1.00	0.048	100776	5.0 mL
02A	↓	0.038	777	↓
03A	↓	1.034	778	↓
03AA	↓	1.035	778	↓
04A	↓	0.038	779	↓
05A	↓	0.045	780	↓
06A	↓	0.038	↓ 781	↓
07A	↓	0.054	102434	↓
08A	↓	0.045	435	↓
09A	↓	1.148	436	↓
09AA	↓	1.150	436	↓
10A	↓	0.049	437	↓
11A	↓	0.064	438	↓
12A	↓	0.032	439	↓
13A	↓	0.066	↓ 403	↓

Notes: Lot # for Blanks: 09146
CCV/LCS @ 57% / mL

Signed: 

Date: 9/10/09

Spectrophotometer Logbook

@Air Toxics Ltd.

Log Book #: 1564

Work Order: 0909122A

Date: 9/4/09

Method: Read 172

Analyst: A. Toyama

Wavelength: 430 nm

Prep. Notes:

cont. from page 49

Standard ID Concentration ABS

Standard ID	Concentration	ABS

r = _____
m = _____
b = _____

Fraction Dilution ABS Sample ID Sample Volume

Fraction	Dilution	ABS	Sample ID	Sample Volume
14A	1.00	0.053	102404	5.0 mL
15A	↓	1.108	↓ 405	↓
16A	↓	0.042	↓ 406	↓
BIK	↓	0.028	NA	↓
BIK	↓	0.026	↓	↓
BIK	↓	0.024	↓	↓
CCV/6'S	↓	0.760	↓	↓

9/10/09 AT

9/10/09
AT

Notes: _____

Signed: _____

Date: 9/10/09

Standard ID: 1858-30

Project: Rad 172 Calibration Solution

Analyst: A. Toyama

Preparation Date: 9/4/09

Expiration Date: 9/4/09

Solvent: DI H₂O

Solvent Lot #: NA

Procedure/Comments: Dissolve 20 ml of 4-Pyridine - carboxaldehyde, 97% (1476-1103, Located F224) in 200 ml DI H₂O. From this solution prepare dilutions at 1:2, 1:5, 1:10 and 1:20. Stock solution = 114 µg/ml

1:2) 250 µl Pyridine solution with 250 µl of DI H₂O = 57 µg/ml

1:5) 100 µl of Pyridine solution with 400 µl of DI H₂O = 22.8 µg/ml

1:10) 100 µl of Pyridine solution with 900 µl of DI H₂O = 11.4 µg/ml

1:20) 250 µl of Pyridine 1:10 solution with 250 µl DI H₂O = 5.7 µg/ml
(then remove 250 µl of 1:10 solution to yield final volume of 500 µl)

Then add 4.5 ml of MBTH solution to each level to yield a final volume of 5 ml, stir and let stand for 1 hour (cover with parafilm). Then read absorbance at 430 nm.

1 µg of 4-pyridylaldehyde = 0.224 µg of ozone

9/4/09

AT

Shipping/ Receiving Documents

**180 Blue Ravine Road, Suite B
Folsom, CA 95630**

**Phone (916) 985-1000 FAX (916) 985-1020
Hours 8:00 A.M. to 6:00 P.M. Pacific**

COMPANY: Environmental Health & Engineering, Inc.
ATTENTION: Mr. Taeko Minegishi
FAX #: 781-247-4305
FROM: Sample Receiving
Workorder #: 0909122A
of pages (Including Cover): 4

9/21/2009

Thank you for selecting Air Toxics Ltd. We have received your samples and have found discrepancies. In order to expedite analysis and reporting, please review the attached information for accuracy. Corrections can be faxed to **Ausha Scott at 916-985-1020.** ATL will proceed with the analysis as specified on the Chain of Custody and Sample Login page.

In accordance with your company's contract, this account is required to have a PO that is fully executed by both parties which also covers the cost of the workorder before any data can be released. Please ensure that you have given all appropriate information to our Project Manager so that there will be no delay in reporting of the data you are requesting.

Your prompt response is appreciated.

FROM: Environmental Health and Engineering, Inc.
117 Fourth Avenue
Needham, MA 02494-2725

TO: AIR TOXICS

Please send invoices to ATTN: Accounts Payable
Please send reports to ATTN: Data Coordinator

In all correspondence regarding this matter, please refer to EH&E Project # 16512

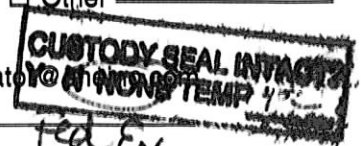
The cost of this analysis will be covered by EH&E Purchase Order # 16512

For EH & E Data Coordinator - URGENT DATA

SAMPLE ID	SAMPLE TYPE	ANALYTICAL METHOD/NUMBER	START	OTHER: Time/Date/Vol.
01A 100776	AIR/PASSIVE	OZONE ANALYSIS	8/17/09	9/1/09
02A 100777				
03A 100778				
04A 100779				
05A 100780				
06A 100781				∅
07A 102434			8/18/09	9/1/09
08A 102435				
09A 102436				
10A 102437				
11A 102438				
12A 102439				∅
13A 102403			8/19/09	9/1/09
14A 102404				
15A 102405				
16A 102406				

Special Instructions:

- Standard turn around time
- Fax results 781-247-4305
- RETURN SAMPLES
- Additional report recipient mfragala@eh&e.com
- Rush by _____ date/time
- Other _____
- Electronic transfer - datacoordinator@eh&e.com



Each signatory please return one copy of this form to the above address

Relinquished by: [Signature] of Environmental Health & Engineering, Inc. Date: 9/3/09

Received by: [Signature] of (company name) ATI Date: 7/4/09

Relinquished by: _____ of (company name) _____ Date: _____

Received by: _____ of (company name) _____ Date: _____

Relinquished by: _____ of (company name) _____ Date: _____

Received by: _____ of (company name) _____ Date: _____

Lab Data Received by: _____ of Environmental Health & Engineering, Inc. Date: _____

SAMPLE RECEIPT SUMMARY

WORKORDER 0909122A

Client	Phone	Date Promised: 09/16/09 11:59 pm
Mr. Taeko Minegishi	800-825-5343	Date Completed: 9/17/09
Environmental Health & Engineering, Inc.	Fax	Date Received: 9/4/09
117 Fourth Avenue	781-247-4305	PO#: 16512
Needham, MA 02494		Project#: 16512
Sales Rep: TL		Total \$: \$ 880.00
		Logged By: MG

<u>Fraction</u>	<u>Sample #</u>	<u>Analysis</u>	<u>Collected</u>	<u>Amount\$</u>
01A	100776	ATL Applications	9/1/2009	\$50.00
02A	100777	ATL Applications	9/1/2009	\$50.00
03A	100778	ATL Applications	9/1/2009	\$50.00
03AA	100778 Lab Duplicate	ATL Applications	9/1/2009	\$0.00
04A	100779	ATL Applications	9/1/2009	\$50.00
05A	100780	ATL Applications	9/1/2009	\$50.00
06A	100781	ATL Applications	NA	\$50.00
07A	102434	ATL Applications	9/1/2009	\$50.00
08A	102435	ATL Applications	9/1/2009	\$50.00
09A	102436	ATL Applications	9/1/2009	\$50.00
09AA	102436 Lab Duplicate	ATL Applications	9/1/2009	\$0.00
10A	102437	ATL Applications	9/1/2009	\$50.00
11A	102438	ATL Applications	9/1/2009	\$50.00
12A	102439	ATL Applications	NA	\$50.00
13A	102403	ATL Applications	9/1/2009	\$50.00
14A	102404	ATL Applications	9/1/2009	\$50.00
15A	102405	ATL Applications	9/1/2009	\$50.00
16A	102406	ATL Applications	9/1/2009	\$50.00
17A	Method Blank	ATL Applications	NA	\$0.00
17B	Method Blank	ATL Applications	NA	\$0.00

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.
Atlas Project Name/Profile#: CPSC Indoor Air Monitoring/13297

BILL TO: Accounts Payable
Environmental Health & Engineering, Inc.
117 Fourth Avenue
Needham, MA 02494

Analysis Code: Other GC

TERMS:

Reporting Method: ATL Application #62 Ozone-Radiello 172

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

SAMPLE RECEIPT SUMMARY Continued

Client	Phone	Date Promised: 09/16/09 11:59 pm
Mr. Taeko Minegishi	800-825-5343	Date Completed: 9/17/09
Environmental Health & Engineering, Inc.	Fax	Date Received: 9/4/09
117 Fourth Avenue	781-247-4305	PO#: 16512
Needham, MA 02494		Project#: 16512
Sales Rep: TL		Total \$: \$ 880.00
		Logged By: MG

<u>Fraction</u>	<u>Sample #</u>	<u>Analysis</u>	<u>Collected</u>	<u>Amount\$</u>
17C	Method Blank	ATL Applications	NA	\$0.00
18A	CCV	ATL Applications	NA	\$0.00
Misc. Charges eCVP (16) @ \$5.00 each.				\$80.00

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.
Atlas Project Name/Profile#: CPSC Indoor Air Monitoring/13297

BILL TO: Accounts Payable
Environmental Health & Engineering, Inc.
117 Fourth Avenue
Needham, MA 02494

Analysis Code: Other GC

TERMS:

Reporting Method: ATL Application #62 Ozone-Radiello 172

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

Other Records



Method : ATL Application #62 Ozone-Radllo 172

CAS Number	Compound	Rpt. Limit (ug)
10028-15-6	Ozone	1.0

DATA REVIEW CHECKLIST

Work Order #:

0909122A

A1 A2 R T M Q

- Analysis/Reporting vs. Project Profile/SOP requirements checked (i.e. 100% Dups, J-Flag to MDL, etc)
The final report has the correct reporting list, special units, and header info.
Lab Narrative is correct (proper method & description/Receiving & Analytical notes correct)
Sample Discrepancy Report (SDR) is completed
Corrective Action issued - #
Unusual circumstances have been documented in the notes section below

LUMEN validation report present and initialed

CIRCLE (YES (NO))

- Lab Blank, CCV, LCS and DUP met QC criteria
Hold time is met for all samples
Appropriate data qualifier flags are applied
Manual integrations for samples and QC are properly documented
Samples analyzed within the project or method specific clock
Retention times have been verified
Appropriate ICAL(s) included
At least one result per sample is verified against the target quant sheets/raw data
Dilution factor correctly calculated (sample load volume, syringe and bag dilutions, can pressurization(s))
Correct amount of sample analyzed (i.e. sample not over-diluted)
Spectra verified - documentation of spectral defense included (Section 5A of eCVP pkg)
TICs resemble reference spectra
TICs between duplicate samples are consistent
Checked samples for trends (i.e. Influent vs. Effluent, Field Dups, Field/Trip Blank, etc.)
Data for multiple analyses of sample(s) has been evaluated for comparability of results
Special units for all samples in the final report are correctly calculated
Manually entered results checked (i.e. TPH/NMOC)
Chain of Custody verified for any special comments (i.e. different compounds/RLs, action levels)
Chain of Custody scanned correctly
Verify sample id's vs. chain of custody
Date MDL(s) performed per instrument(s)
Samples pressurized w/ appropriate gas (N2 or He)
Final pressure consistent with canister size (6L vs. 1L)
Verify receipt pressures
Verify canister ID #'s
Final invoice amount correct (adjusted for TAT, Penalties, Re-issue Charges etc.)
MDL date(s) present for all instruments utilized
Client LUMEN report reviewed for accuracy and completeness

Notes: (to include: noting samples with QA/QC problems, Blanks with positive hits, narratives, etc.)

A/R:

DUP: 03A, 09A

M/Q:

A1/A2 (Analytical Review/Date)

R/T (Reporting Review/Date)

M (Management Review/Date)

Q (QA Review/Date)

A1: R: 4/16/09

M: 9/17/09

A2: T: