

COMPREHENSIVE VALIDATION PACKAGE

ATL Applications

INVENTORY SHEET

WORK ORDER # 0909123C

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Completed by:

Anne Wilhoit

(Signature)

Anne Wilhoit/ Document Control

(Print Name & Title)

09/22/09

(Date)

WORK ORDER #: 0909123C

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:	09/18/2009		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>
33A	102105	ATL Applications
34A	102106	ATL Applications
35A	102107	ATL Applications
36A	102108	ATL Applications
37A	102140	ATL Applications
37AA	102140 Lab Duplicate	ATL Applications
38A	102141	ATL Applications
39A	102142	ATL Applications
39AA	102142 Lab Duplicate	ATL Applications
40A	102143	ATL Applications
41A	102144	ATL Applications
42A	102145	ATL Applications
43A	102146	ATL Applications
44A	102171	ATL Applications
45A	102172	ATL Applications
46A	102173	ATL Applications
47A	102174	ATL Applications
48A	102175	ATL Applications

Continued on next page

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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:	09/18/2009		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>
49A	102176	ATL Applications
50A	Lab Blank	ATL Applications
50B	Lab Blank	ATL Applications
51A	CCV	ATL Applications

CERTIFIED BY:

Sandra J. Freeman

Laboratory Director

DATE: 09/18/09

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
Hydrogen Sulfide by Radiello 170
Environmental Health & Engineering, Inc.
Workorder# 0909123C**

Seventeen Radiello 170 (H₂S) samples were received on September 04, 2009. The procedure involves adsorption of H₂S by zinc acetate to form zinc sulfide. The sulfide is then recovered by extraction with water and addition of ferric chloride in a strongly acidic solution to produce methylene blue. Methylene blue absorbance is then measured at 665 nm using a spectrophotometer. Results are reported in uG and uG/m³.

Sampling rate of 69 mL/min for H₂S 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 20160 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 # 59 for RAD 170 (Hydrogen Sulfide)
 Spectrophotometer

Field Sample I.D.	Lab Sample I.D.	Collection Date	Analysis Date	Dilution Factor	Reporting Limit (ug)	Reporting Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
102105	0909123C-33A	9/3/2009	9/10/2009	1.00	0.80	0.54	1.6	1.1
102106	0909123C-34A	9/3/2009	9/10/2009	1.00	0.80	0.54	ND	ND
102107	0909123C-35A	9/3/2009	9/10/2009	1.00	0.80	0.54	ND	ND
102108	0909123C-36A	NA	9/10/2009	1.00	0.80	0.54	ND	ND
102140	0909123C-37A	9/3/2009	9/10/2009	1.00	0.80	0.54	ND	ND
102140 Duplicate	0909123C-37A	9/3/2009	9/10/2009	1.00	0.80	0.54	ND	ND
102141	0909123C-38A	9/3/2009	9/10/2009	1.00	0.80	0.54	ND	ND
102142	0909123C-39A	9/3/2009	9/10/2009	1.00	0.80	0.54	1.4	0.96
102142 Duplicate	0909123C-39A	9/3/2009	9/10/2009	1.00	0.80	0.54	1.4	0.95
102143	0909123C-40A	9/3/2009	9/10/2009	1.00	0.80	0.54	ND	ND
102144	0909123C-41A	9/3/2009	9/10/2009	1.00	0.80	0.54	ND	ND
102145	0909123C-42A	NA	9/10/2009	1.00	0.80	0.54	ND	ND
102146	0909123C-43A	NA	9/10/2009	1.00	0.80	0.54	ND	ND
102171	0909123C-44A	9/3/2009	9/10/2009	1.00	0.80	0.54	1.0	0.68
102172	0909123C-45A	9/3/2009	9/10/2009	1.00	0.80	0.54	1.1	0.73
102173	0909123C-46A	9/3/2009	9/10/2009	1.00	0.80	0.54	1.6	1.0
102174	0909123C-47A	9/3/2009	9/10/2009	1.00	0.80	0.54	0.80	0.54
102175	0909123C-48A	9/3/2009	9/10/2009	1.00	0.80	0.54	0.80	0.54
102176	0909123C-49A	NA	9/10/2009	1.00	0.80	0.54	ND	ND
Method Blank	0909123C-50A	NA	9/10/2009	1.00	0.80	0.54	ND	ND
Method Blank	0909123C-50B	NA	9/10/2009	1.00	0.80	0.54	ND	ND
CCV	0909123C-51A	NA	9/10/2009	1.00	0.80	0.54	%Rec 109	

COMMENTS: 1. NA=Not Applicable
 2. ND=Not Detected
 3. Exposure time of 20160 minutes was assumed for the QC samples.
 4. Background subtraction not performed.

Hydrogen Sulfide Radiello Calculation Worksheet

Workorder #: **09091236**

Sampling Rate (ng/ppb/min) **0.096** Typically 0.096 for H2S

Sampling T (deg C) **25** Typically 25

Volume (ml) **10.5** Typically 10.5 for H2S

Date of Analysis: **9/10/2009**

Corrected Q **0.096** Takes into account temp

(Abs-V-int)XDF
Slope

Conc(ug/ml)XVol (ml)

Conc (ug sulfide) *MW H2S
MW Sulfide

Q Includes conversion from
Sulfide to H2S

Conc (ug) x 1000
Q x Duration

ppbx mw
24.45

T Corrected, no Blank correction

Lab/SampleID	Client	Date of Collection	Abs	Duration (min)	DF	Conc (ug/ml) of sulfide	Conc (ug) of sulfide	Conc (ug) of H2S	Conc (ppb) of H2S	Conc (ug/m3) of H2S
33A	102105	9/3/2009	0.161	20160	1.00	0.141602479	1.486826034	1.530106171	0.768	1.071
34A	102106	9/3/2009	0.059	20160	1.00	0.056712878	0.385485215	0.409669695	0.199	0.278
35A	102107	9/3/2009	0.076	20160	1.00	0.054194478	0.569042018	0.804742441	0.294	0.410
36A	102108	NA	0.017	20160	1.00	-0.006476958	-0.068008063	-0.072274737	-0.035	-0.049
37A	102140	9/3/2009	0.085	20160	1.00	0.063449443	0.66621915	0.708016247	0.344	0.480
37AA	102140 Duplicate	9/3/2009	0.087	20160	1.00	0.065506102	0.687814068	0.730969592	0.355	0.495
38A	102141	9/3/2009	0.066	20160	1.00	0.043911184	0.461067428	0.4889993767	0.238	0.352
39A	102142	9/3/2009	0.147	20160	1.00	0.127205867	1.335661608	1.419458027	0.690	0.962
40A	102143	9/3/2009	0.071	20160	1.00	0.125149209	1.31406669	1.396508292	0.679	0.946
41A	102144	9/3/2009	0.054	20160	1.00	0.049052831	0.515054723	0.547368104	0.266	0.371
42A	102145	NA	0.019	20160	1.00	0.03157123	0.33149792	0.352295358	0.171	0.239
43A	102146	NA	0.011	20160	1.00	-0.0044203	-0.046413145	-0.049925002	-0.024	-0.033
44A	102171	9/3/2009	0.111	20160	1.00	0.090186008	0.946933084	1.0063628	0.489	0.682
45A	102172	9/3/2009	0.117	20160	1.00	0.0963555985	1.011737838	1.075212005	0.523	0.729
46A	102173	9/3/2009	0.159	20160	1.00	0.139545821	1.465231116	1.557156436	0.757	1.055
47A	102174	9/3/2009	0.093	20160	1.00	0.071676078	0.752598822	0.799815187	0.389	0.542
48A	102175	9/3/2009	0.093	20160	1.00	0.071676078	0.752598822	0.799815187	0.389	0.542
49A	102176	NA	0.020	20160	1.00	-0.00339197	-0.036615686	-0.037850135	-0.018	-0.026
50A	Method Blank	NA	0.021	20160	1.00	-0.023958559	-0.251564866	-0.267347483	#DIV/0!	#DIV/0!
50B	Method Blank	NA	0.022	20160	1.00	-0.023958559	-0.251564866	-0.267347483	#DIV/0!	#DIV/0!
51A	CCV	NA	0.629	20160	1.00	-0.002363641	-0.024818227	-0.026375267	-0.013	-0.018
						-0.001335311	-0.014020768	-0.01499004	-0.007	-0.010
						0.622286053	6.540036852	6.950344121	3.379	4.710

QC Duration
20160

CCV Spike Amt
0.572

Verified: HH and AW on 9/4/09

QC Results and Raw Data

Spectrophotometer Logbook

@Air Toxics Ltd.

Log Book #: 1873

Work Order: 0909123 C

Method: Rad 170

Date: 9/10/09

Wavelength: 665nm

Analyst: M. Skidmore

Prep. Notes:

Standard ID	Concentration	ABS
1858-36 E	0.0716 µg/ml	0.074
D	0.143 µg/ml	0.151
C	0.286 µg/ml	0.316
B	0.572 0.572 µg/ml	0.613
A	1.145 µg/ml	1.119

$r = \frac{0.9968}{0.9970}$
 $m = \frac{0.9724}{0.9724}$
 $b = \frac{0.02329}{0.02329}$
 4/9/16/09

Fraction	Dilution	ABS	Sample ID	Sample Volume
33A	1.00	0.161	102105	10.5ml
34A		0.059	102106	
35A		0.076	102107	
36A		0.017	102108	
37A		0.085	102140	
38A		0.066	102141	
39A		0.147	102142	
40A		0.071	102143	
41A		0.054	102144	
42A		0.019	102145	
43A		0.019	102146	
44A		0.111	102171	
45A		0.117	102172	
46A		0.159	102173	
47A		0.093	102174	
48A		0.093	102175	
49A		0.020	102176	
BLK		0.021	N/A	
BLK		0.022		
CCV/LCS		0.629		
37AA		0.087	102140	
39AA		0.145	102142	

Notes: CCV/LCS @ 0.572 µg/ml
Spiked cartridge: 0.141 (1.0 ml of 1000 ppm)

Spectrophotometer Standard Preparation Log

@Air Toxics Ltd. Log Book #: 1858

Standard ID: 1858-36

Solvent: D.I. H₂O

Project: Calibration Solution Rad 170

Solvent Lot #: N/A

Analyst: M. Skidmore

Preparation Date: 9/10/09

Expiration Date: 9/10/09

Procedure/Comments:

Solution A: 2 mL of Code Rad 171 (1476-984, exp 8/6/2010 ERIB) with 98 mL DI water = 1.145 µg/mL

Solution B: 2.5 mL of Solution A with 2.5 mL DI water = 0.572 µg/mL.

Solution C: 1.25 mL of Solution A with 3.75 mL DI water = 0.286 µg/mL

Solution D: 0.625 mL of Solution A with 4.375 mL DI water = 0.143 µg/mL

Solution E: 0.375 mL of Solution A with 5.625 mL DI water = 0.076 µg/mL

[Large handwritten signature]

MSS
9/10/09

[Signature] 9/10/09
Signed Date

[Signature] 9/10/09
Reviewed Date

Rev. 8/97

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 #: 0909123C

of pages (Including Cover): 4

9/22/2009

Thank you for selecting Air Toxics Ltd. We have received your samples and have found no 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.

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

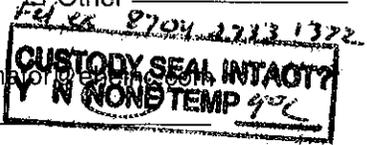
The cost of this analysis will be covered by EH&E Purchase Order # 16512

For EH & E Data Coordinator - URGENT DATA

SAMPLE ID	SAMPLE TYPE	ANALYTICAL METHOD/NUMBER	OTHER: Time (Date) / Vol.
33A 102105	AIR/PASSIVE	H ₂ S ANALYSIS	8/20/09 9/3/09
34A 102106			
35A 102107			
36A 102108			6
37A 102140			9/3/09
38A 102141			
39A 102142			
40A 102143			
41A 102144			
42A 102145			6
43A 102146			6
44A 102171			9/3/09
45A 102172			
46A 102173			
47A 102174			
48A 102175			
49A 102176			6

Special instructions:

- Standard turn around time
- Fax results 781-247-4305
- RETURN SAMPLES
- Additional report recipient mfragala@ehemc.com
- Rush by _____ date/time
- Other _____
- Electronic transfer - datacoordinator@ehemc.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) AHL Date: 9/4/09
 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 0909123C

Client	Phone	Date Promised: 09/16/09 11:59 pm
Mr. Taeko Minegishi	800-825-5343	Date Completed: 9/18/09
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 \$: \$ 935.00
		Logged By: MG

<u>Fraction</u>	<u>Sample #</u>	<u>Analysis</u>	<u>Collected</u>	<u>Amount\$</u>
33A	102105	ATL Applications	9/3/2009	\$50.00
34A	102106	ATL Applications	9/3/2009	\$50.00
35A	102107	ATL Applications	9/3/2009	\$50.00
36A	102108	ATL Applications	NA	\$50.00
37A	102140	ATL Applications	9/3/2009	\$50.00
37AA	102140 Lab Duplicate	ATL Applications	9/3/2009	\$0.00
38A	102141	ATL Applications	9/3/2009	\$50.00
39A	102142	ATL Applications	9/3/2009	\$50.00
39AA	102142 Lab Duplicate	ATL Applications	9/3/2009	\$0.00
40A	102143	ATL Applications	9/3/2009	\$50.00
41A	102144	ATL Applications	9/3/2009	\$50.00
42A	102145	ATL Applications	NA	\$50.00
43A	102146	ATL Applications	NA	\$50.00
44A	102171	ATL Applications	9/3/2009	\$50.00
45A	102172	ATL Applications	9/3/2009	\$50.00
46A	102173	ATL Applications	9/3/2009	\$50.00
47A	102174	ATL Applications	9/3/2009	\$50.00
48A	102175	ATL Applications	9/3/2009	\$50.00
49A	102176	ATL Applications	NA	\$50.00
50A	Lab 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 #59 H2S-Radiello 170

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: 9/18/09
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 \$: \$ 935.00
		Logged By: MG

<u>Fraction</u>	<u>Sample #</u>	<u>Analysis</u>	<u>Collected</u>	<u>Amount\$</u>
50B	Lab Blank	ATL Applications	NA	\$0.00
51A	CCV	ATL Applications	NA	\$0.00
Misc. Charges eCVP (17) @ \$5.00 each.				\$85.00

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 #59 H2S-Radiello 170

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

Sample Discrepancy Report

Identification

Initiated By: MW Project ID: 13297 PM: BI Date: 9/4/2009 Discrepancy Type: 1. 2. 3.

Workorder(s) affected: 0909123 Sample(s) affected: 34A and 35A

1. Sample Receipt Discrepancies

Narration Not Required:

- 1.1. Sample container (cartridge/tube/VOA vial) was received broken, however sample was intact.
- 1.2. No brass cap on canister.
- 1.3. Date of Collection noted on first sample, but no arrow down to indicate all samples.

Notify Lab for further determination:

- 1.4. Tedlar bag received with minimal volume.

Initials: _____ Date: _____

Narration Required in Lab Narrative and Sample Confirmation:

- 1.5. COC was not filled out in ink.
- 1.6. COC improperly relinquished / received.
- 1.7. Sample tags / can numbers do not match the COC.
- 1.8. Sample date error / missing on COC but noted on sample tag (check one).
- 1.9. Custody Seal on the outside of the container was broken / improperly placed (check one).
- 1.10. ID-none on the sample Tag/Blank
- 1.11. Other (describe below).

Describe the Discrepancy:

2. Sample Receipt/Screening Discrepancies requiring PM notification

Document on Cover Page of Sample Receipt Confirmation and in Receiving Notes of Lab Narrative

If Section II. is filled out PM must be notified within 24 hrs of initiation

- 2.1. COC was not received with samples.
- 2.2. Analysis method(s) is not specified / incorrectly specified (check one) on the COC.
- 2.3. Incorrect sampling media / container for analysis requested.
- 2.4. Number of samples on the COC does not match the number of samples that were received.
- 2.5. Samples were received expired.
- 2.6. Sampling date (time for sulfur) is not documented for some / any samples (check one).
- 2.7. Sample received with amount of H₂O in the Tedlar Bag.
- 2.8. Sample cannot be analyzed. Container was received broken / leaking / flat / defective.
- 2.9. Tedlar bag / canister received emitting a strong odor; Sample can / cannot (check one) be analyzed.
- 2.10. Tedlar Bag for Sulfur analysis has metal fitting.
- 2.11. Environmental Supply Company valves
- 2.12. Sorbent samples-sampling volume was not provided
- 2.13. Flow controller used – canister samples received at ambient or under pressure.
- 2.14. Canister was at ambient pressure at time of pressurization and (check all that apply):
 - Canister failed leak check on two manifolds,
 - Canister valve was open,
 - Brass nut was loose/not present.
 - Sample can be analyzed
 - Cannot be analyzed
- 2.15. Canister sample received with a vacuum difference >5.0"Hg between the receipt vac. And the final vac. reported on the COC, indicating loss of vacuum.
- 2.16. Canister sample received at >15"Hg (not identified as a Trip/Field Blank).
- 2.17. Canister Trip Blank received at low vacuum (< 25"Hg).
- 2.18. Sorbent Sample received outside method required temperature of 2°C to 6°C; ice / blue ice (check one) was present. A temp. Blank was / was not present (check one).
- 2.19. Other (describe below)

Initials: _____ Date: _____ Notify Receiving: Notify PM:

Describe the Discrepancy:

3. Lab Discrepancies requiring Team Leader/PM notification

Document in Analytical Notes of Lab Narrative

If Section III. is filled out PM must be notified within 24 hrs of initiation

- 3.1. Tedlar Bag found to be leaking at the time of analysis; sample can / cannot (check one) be analyzed.
- 3.2. Tedlar Bag found to be flat/low volume; sample cannot be analyzed.
- 3.3. Sulfur samples received with insufficient time to analyze prior to expiration.
- 3.4. Canister found to be leaking at the time of analysis.
- 3.5. VOST tube saturated; bag dilution necessary.
- 3.6. Sample loss due to instrument malfunction / broken glassware.
- 3.7. Low/high surrogate recoveries noted in QC/sample(s) for extractable samples.
- 3.8. Reporting Limit was raised.
- 3.9. Post weight > Pre weight in field/lab Blank for PM10/TSP samples.
- 3.10. Other (describe below).

Initials: _____ Date: _____ Notify Receiving: Notify PM:

Team Lead Initials: _____ Date: _____

Describe the Discrepancy: _____

How Does this Affect Client: _____

Project Manager Use Only

Project Manager Notification

Section 2 Complete Section 3 Complete

Action:

- It is not necessary to notify the client. Narrate the discrepancy in Receiving Notes/Analytical Notes of Lab Narrative.

PM Initials: _____ Date: _____

- Client notification required. See attached client contact / email, or comments below:

Client Notification:

PM Initials: _____ Person notified: _____ Date: _____

- Waiting for Client Reply

Comments: _____

Notify Lab Name: _____ Date: _____ **Notify Receiving:**

- Additional notifications attached.

Additional Comments:

Other Records



Method : ATL Application #59 H2S-Radiello 170

CAS Number	Compound	Rpt. Limit (ug)
7783-06-4	Hydrogen Sulfide	1.2
