ENVIRON

1

January 19, 2011

[redacted]
Chief, Environmental Compliance Branch
Directorate of Public Works
Bldg. 3-1137, Butner Road
Fort Bragg, North Carolina 28310

Via email: [redacted]@us.army.mil

RE: [redacted] Fort Bragg, North Carolina 28307

Dear [redacted]

Pursuant to your request, ENVIRON has evaluated this home to determine whether there is evidence in the home of effects from defective gypsum wallboard. ENVIRON's evaluation included:

- the measurement of indoor and outdoor air using a calibrated direct-reading hydrogen sulfide analyzer
- the collection of indoor and outdoor ambient air samples for subsequent laboratory analysis
- examination of the air handler of the HVAC system, copper portions of plumbing and electrical components, including receptacles, switches and exposed copper wiring
- opening walls to inspect for labeling or manufacturing marks on wallboard
- collection of wallboard samples for analysis of elemental sulfur

On December 7, 2010, ENVIRON collected indoor and outdoor ambient air samples for subsequent laboratory analysis (Sample 120710-3OS-10 from the kitchen; Sample 120710-3OS-11 from the master bedroom; and Samples 120710-3OS-12 and 120710-3OS-13 from outdoors). ENVIRON delivered the air samples to Lakeland Labs, LLC, an independent accredited laboratory, which tested the air samples for the presence and concentration of 20 sulfur-containing compounds using American Society for Testing and Materials (ASTM) Method D-5504. As you can see from the attached laboratory results, Lakeland Labs, LLC did not report measureable levels of any of the 20 sulfur compounds. In addition, the calibrated direct-reading hydrogen sulfide analyzer detected no indoor concentrations of hydrogen sulfide above the levels detected outside of the home.

ENVIRON also inspected copper components associated with the HVAC system and plumbing, as well as electrical components for discoloration and residue characteristic of corrosion from exposure to defective gypsum wallboard. No black surface accumulations were observed.

ENVIRON cut openings in walls to observe the unpainted side of wallboard for labeling or markings indicative of Chinese-manufactured wallboard. No markings associated with

Chinese-manufactured wallboard were found. We did not detect odors characteristic of defective Chinese-manufactured wallboard in the home or while opening walls.

ENVIRON collected and submitted three wallboard samples to Lakeland Labs, LLC for analysis of elemental sulfur content. Elemental sulfur is a particular form of sulfur present at elevated levels in defective wallboard that produces corrosive sulfide gases. Analyzed samples were collected from the master bedroom closet (120710-3O5-1a), the family room (120710-3O5-2a), and the south bedroom closet (120710-3O5-3a). The laboratory did not detect elemental sulfur in any of the samples, as shown in the attached report. None of these samples have the chemical composition associated with defective wallboard.

Based on these observations, ENVIRON concludes that there is no evidence of effects from defective wallboard in the subject home. Also, we did not find indications suggesting that the wallboard was manufactured in China. If you have any questions or concerns regarding our evaluation, please do not hesitate to contact us.

Sincerely,

Robert P. DeMott, PhD, DABT
Principal Toxicologist

James L. Poole, PhD, CIH
Principal Industrial Hygienist

Enclosure: Attachment 1, Laboratory Results

ATTACHMENT 1

[redacted]

LABORATORY RESULTS

LAKELAND
LABORATORIES

1910 Harden Boulevard
Suite 101
Lakeland, FL 33803
(863) 686-4271 Phone
(863) 686-4389 Fax

11 December 2010

ENVIRON International Corp.
ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

RE: Fort Bragg - 8 Homes
Project Location: [redacted]

Dear ENVIRON International Corp.:

This report details the analytical results of samples collected at the above-referenced project location as well as the results of any associated quality control samples. These samples were taken into custody by Lakeland Laboratories at **08-Dec-10 07:45.**

The work detailed herein has been conducted in accordance with generally accepted professional standards using recognized testing methodologies and quality control measures. It must be noted that the results detailed within this final report apply only to those samples submitted for analysis and reported here. When the NELAP logo is affixed to this report, these test results meet all requirements of the National Environmental Laboratory Accreditation Conference (NELAC).

Your samples will be retained by Lakeland Laboratories for a period of at least 30 days following sample receipt or until the longest of the preparation and/or analytical hold times expires, whichever is shorter. After that time, they will be properly disposed without further notice, unless there exists an explicit contractual agreement to the contrary. We reserve the right to return any unused samples, extracts, or related materials or solutions to you if we consider it necessary. Examples might include those samples identified as hazardous wastes, submissions where the sample sizes significantly exceed those required for analysis, samples containing controlled substances, etc.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full. We will maintain a copy of this report, electronic or otherwise, in our files for at least five years, after which time it may be destroyed without further notice, unless there exists an explicit contractual agreement to the contrary.

We thank you for selecting Lakeland Laboratories to serve your analytical needs. Should you have any questions or require additional information regarding any of the information in this report, please feel free to contact us at any time. We appreciate the opportunity to be of service.

Sincerely,

Technical Director
Mark Alessandroni

LAKELAND LABORATORIES

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(863) 686-4389 Fax

ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
11-Dec-10 14:50

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
120710-3OS-10	1012074-01	Air	07-Dec-10 14:20	08-Dec-10 07:45
120710-3OS-11	1012074-02	Air	07-Dec-10 14:25	08-Dec-10 07:45
120710-3OS-12	1012074-03	Air	07-Dec-10 14:30	08-Dec-10 07:45
120710-3OS-13	1012074-04	Air	07-Dec-10 14:35	08-Dec-10 07:45

Comments on Sample Receipt:
Samples were delivered via overnight courier (Federal Express Airbill No. 8739 6797 3756) and received in the laboratory at 7:45 AM on December 8, 2010. The samples were analyzed the same day, within the mandated holding time of 24 hours. Unless noted elsewhere in the report, no deviations from the laboratory SOP were made.

Comments on Sample Analyses:
With the exception of two compounds, all compounds fell within acceptance criteria for relative percent difference (precision) and percent recovery (accuracy) in the matrix spike-matrix spike duplicate and blank spike-blank spike duplicate QA pairs. Isopropyl mercaptan exhibited a slightly high bias in the blank spike duplicate and the matrix spike. Diethyl sulfide exhibited a slightly high bias in the blank spike duplicate. A method reporting limit (MRL) standard was run and all target analytes were detected, confirming sensitivity of the analytical system.

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
11-Dec-10 14:50

120710-3OS-10
1012074-01 (Air)

Prepared: 08-Dec-10 08:00
Analyzed: 08-Dec-10 10:37

Lakeland Laboratories, LLC

Reduced Sulfur Compounds in Air by GC — Batch: B012010

Analyte	Result	PQL	Units	Dilution	Method	Qualifiers
Hydrogen sulfide	U	5.00	ppbv	1	D5504-08	
Carbonyl Sulfide	U	5.00	ppbv	1	D5504-08	
Methyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Dimethyl Sulfide	U	5.00	ppbv	1	D5504-08	
Carbon Disulfide	U	5.00	ppbv	1	D5504-08	
Isopropyl Mercaptan	U	5.00	ppbv	1	D5504-08	
tert-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Propyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Methyl Sulfide	U	5.00	ppbv	1	D5504-08	
Thiophene	U	5.00	ppbv	1	D5504-08	
Isobutyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Diethyl Sulfide	U	5.00	ppbv	1	D5504-08	
3-Methyl Thiophene	U	5.00	ppbv	1	D5504-08	
Tetrahydrothiophene	U	5.00	ppbv	1	D5504-08	
Dimethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2-Ethyl Thiophene	U	5.00	ppbv	1	D5504-08	
Diethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2,5-Dimethyl Thiophene	U	5.00	ppbv	1	D5504-08	

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10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
11-Dec-10 14:50

120710-3OS-11
1012074-02 (Air)

Prepared: 08-Dec-10 08:00
Analyzed: 08-Dec-10 10:48

Lakeland Laboratories, LLC

Reduced Sulfur Compounds in Air by GC — Batch: B012010

Analyte	Result	PQL	Units	Dilution	Method	Qualifiers
Hydrogen sulfide	U	5.00	ppbv	1	D5504-08	
Carbonyl Sulfide	U	5.00	ppbv	1	D5504-08	
Methyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Dimethyl Sulfide	U	5.00	ppbv	1	D5504-08	
Carbon Disulfide	U	5.00	ppbv	1	D5504-08	
Isopropyl Mercaptan	U	5.00	ppbv	1	D5504-08	
tert-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Propyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Methyl Sulfide	U	5.00	ppbv	1	D5504-08	
Thiophene	U	5.00	ppbv	1	D5504-08	
Isobutyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Diethyl Sulfide	U	5.00	ppbv	1	D5504-08	
3-Methyl Thiophene	U	5.00	ppbv	1	D5504-08	
Tetrahydrothiophene	U	5.00	ppbv	1	D5504-08	
Dimethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2-Ethyl Thiophene	U	5.00	ppbv	1	D5504-08	
Diethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2,5-Dimethyl Thiophene	U	5.00	ppbv	1	D5504-08	

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Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
11-Dec-10 14:50

120710-3OS-12
1012074-03 (Air)

Prepared: 08-Dec-10 08:00
Analyzed: 08-Dec-10 10:59

Lakeland Laboratories, LLC

Reduced Sulfur Compounds in Air by GC — Batch: B012010

Analyte	Result	PQL	Units	Dilution	Method	Qualifiers
Hydrogen sulfide	U	5.00	ppbv	1	D5504-08	
Carbonyl Sulfide	U	5.00	ppbv	1	D5504-08	
Methyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Dimethyl Sulfide	U	5.00	ppbv	1	D5504-08	
Carbon Disulfide	U	5.00	ppbv	1	D5504-08	
Isopropyl Mercaptan	U	5.00	ppbv	1	D5504-08	
tert-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Propyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Methyl Sulfide	U	5.00	ppbv	1	D5504-08	
Thiophene	U	5.00	ppbv	1	D5504-08	
Isobutyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Diethyl Sulfide	U	5.00	ppbv	1	D5504-08	
3-Methyl Thiophene	U	5.00	ppbv	1	D5504-08	
Tetrahydrothiophene	U	5.00	ppbv	1	D5504-08	
Dimethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2-Ethyl Thiophene	U	5.00	ppbv	1	D5504-08	
Diethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2,5-Dimethyl Thiophene	U	5.00	ppbv	1	D5504-08	

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Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
11-Dec-10 14:50

120710-3OS-13
1012074-04 (Air)

Prepared: 08-Dec-10 08:00
Analyzed: 08-Dec-10 11:10

Lakeland Laboratories, LLC

Reduced Sulfur Compounds in Air by GC — Batch: B012010

Analyte	Result	PQL	Units	Dilution	Method	Qualifiers
Hydrogen sulfide	U	5.00	ppbv	1	D5504-08	
Carbonyl Sulfide	U	5.00	ppbv	1	D5504-08	
Methyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Dimethyl Sulfide	U	5.00	ppbv	1	D5504-08	
Carbon Disulfide	U	5.00	ppbv	1	D5504-08	
Isopropyl Mercaptan	U	5.00	ppbv	1	D5504-08	
tert-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Propyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Methyl Sulfide	U	5.00	ppbv	1	D5504-08	
Thiophene	U	5.00	ppbv	1	D5504-08	
Isobutyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Diethyl Sulfide	U	5.00	ppbv	1	D5504-08	
3-Methyl Thiophene	U	5.00	ppbv	1	D5504-08	
Tetrahydrothiophene	U	5.00	ppbv	1	D5504-08	
Dimethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2-Ethyl Thiophene	U	5.00	ppbv	1	D5504-08	
Diethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2,5-Dimethyl Thiophene	U	5.00	ppbv	1	D5504-08	

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
11-Dec-10 14:50

Reduced Sulfur Compounds in Air by GC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012010 - Prep Method: None										
Blank (B012010-BLK1)			**Prepared: 08-Dec-10 08:00**			**Analyzed: 08-Dec-10 09:26**				
Hydrogen sulfide	U	5.00	ppbv							
Carbonyl Sulfide	U	5.00	ppbv							
Methyl Mercaptan	U	5.00	ppbv							
Ethyl Mercaptan	U	5.00	ppbv							
Dimethyl Sulfide	U	5.00	ppbv							
Carbon Disulfide	U	5.00	ppbv							
Isopropyl Mercaptan	U	5.00	ppbv							
tert-Butyl Mercaptan	U	5.00	ppbv							
n-Propyl Mercaptan	U	5.00	ppbv							
Ethyl Methyl Sulfide	U	5.00	ppbv							
Thiophene	U	5.00	ppbv							
Isobutyl Mercaptan	U	5.00	ppbv							
n-Butyl Mercaptan	U	5.00	ppbv							
Diethyl Sulfide	U	5.00	ppbv							
3-Methyl Thiophene	U	5.00	ppbv							
Tetrahydrothiophene	U	5.00	ppbv							
Dimethyl Disulfide	U	5.00	ppbv							
2-Ethyl Thiophene	U	5.00	ppbv							
Diethyl Disulfide	U	5.00	ppbv							
2,5-Dimethyl Thiophene	U	5.00	ppbv							
LCS (B012010-BS1)			**Prepared: 08-Dec-10 08:00**			**Analyzed: 08-Dec-10 09:37**				
Hydrogen sulfide	27.6	5.00	ppbv	25.0		110	63-128 %			
Carbonyl Sulfide	28.0	5.00	ppbv	25.0		112	78-195 %			
Methyl Mercaptan	27.5	5.00	ppbv	25.0		110	58-131 %			
Ethyl Mercaptan	27.2	5.00	ppbv	25.0		109	52-138 %			
Dimethyl Sulfide	27.4	5.00	ppbv	25.0		110	75-118 %			
Carbon Disulfide	27.2	5.00	ppbv	25.0		109	71-186 %			

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ENVIRON International Corp.
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Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
11-Dec-10 14:50

Reduced Sulfur Compounds in Air by GC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012010 - Prep Method: None										
LCS (B012010-BS1)			**Prepared:**	**08-Dec-10 08:00**		**Analyzed:**	**08-Dec-10 09:37**			
Isopropyl Mercaptan	27.7	5.00	ppbv	25.0		111	66-117 %			
tert-Butyl Mercaptan	27.2	5.00	ppbv	25.0		109	52-138 %			
n-Propyl Mercaptan	26.9	5.00	ppbv	25.0		108	61-128 %			
Ethyl Methyl Sulfide	28.6	5.00	ppbv	25.0		114	70-123 %			
Thiophene	27.8	5.00	ppbv	25.0		111	69-123 %			
Isobutyl Mercaptan	27.6	5.00	ppbv	25.0		110	57-127 %			
n-Butyl Mercaptan	27.6	5.00	ppbv	25.0		111	74-124 %			
Diethyl Sulfide	27.1	5.00	ppbv	25.0		109	63-116 %			
3-Methyl Thiophene	27.2	5.00	ppbv	25.0		109	72-121 %			
Tetrahydrothiophene	27.8	5.00	ppbv	25.0		111	60-128 %			
Dimethyl Disulfide	29.3	5.00	ppbv	25.0		117	67-124 %			
2-Ethyl Thiophene	28.7	5.00	ppbv	25.0		115	63-131 %			
Diethyl Disulfide	28.5	5.00	ppbv	25.0		114	57-135 %			
2,5-Dimethyl Thiophene	28.2	5.00	ppbv	25.0		113	58-136 %			
LCS Dup (B012010-BSD1)			**Prepared:**	**08-Dec-10 08:00**		**Analyzed:**	**08-Dec-10 11:44**			
Hydrogen sulfide	29.0	5.00	ppbv	25.0		116	63-128 %	5	30	
Carbonyl Sulfide	29.7	5.00	ppbv	25.0		119	78-195 %	6	30	
Methyl Mercaptan	28.6	5.00	ppbv	25.0		114	58-131 %	4	30	
Ethyl Mercaptan	28.9	5.00	ppbv	25.0		116	52-138 %	6	30	
Dimethyl Sulfide	27.8	5.00	ppbv	25.0		111	75-118 %	1	30	
Carbon Disulfide	28.7	5.00	ppbv	25.0		115	71-186 %	5	30	
Isopropyl Mercaptan	29.4	5.00	ppbv	25.0		118	66-117 %	6	30	J
tert-Butyl Mercaptan	28.0	5.00	ppbv	25.0		112	52-138 %	3	30	
n-Propyl Mercaptan	28.7	5.00	ppbv	25.0		115	61-128 %	6	30	
Ethyl Methyl Sulfide	28.8	5.00	ppbv	25.0		115	70-123 %	0.7	30	
Thiophene	29.0	5.00	ppbv	25.0		116	69-123 %	4	30	
Isobutyl Mercaptan	29.1	5.00	ppbv	25.0		116	57-127 %	5	30	

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
11-Dec-10 14:50

Reduced Sulfur Compounds in Air by GC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012010 - Prep Method: None										
LCS Dup (B012010-BSD1)		**Prepared:**	**08-Dec-10 08:00**		**Analyzed:**	**08-Dec-10 11:44**				
n-Butyl Mercaptan	28.7	5.00	ppbv	25.0		115	74-124 %	4	30	
Diethyl Sulfide	29.5	5.00	ppbv	25.0		118	63-116 %	8	30	J
3-Methyl Thiophene	28.4	5.00	ppbv	25.0		114	72-121 %	4	30	
Tetrahydrothiophene	28.8	5.00	ppbv	25.0		115	60-128 %	4	30	
Dimethyl Disulfide	29.9	5.00	ppbv	25.0		120	67-124 %	2	30	
2-Ethyl Thiophene	29.4	5.00	ppbv	25.0		118	63-131 %	2	30	
Diethyl Disulfide	28.9	5.00	ppbv	25.0		116	57-135 %	1	30	
2,5-Dimethyl Thiophene	29.0	5.00	ppbv	25.0		116	58-136 %	3	30	
Duplicate (B012010-DUP1)	**Source: 1012077-04**	**Prepared:**	**08-Dec-10 08:00**		**Analyzed:**	**08-Dec-10 13:52**				
Hydrogen sulfide	U	5.00	ppbv		U				30	
Carbonyl Sulfide	U	5.00	ppbv		U				30	
Methyl Mercaptan	U	5.00	ppbv		U				30	
Ethyl Mercaptan	U	5.00	ppbv		U				30	
Dimethyl Sulfide	U	5.00	ppbv		U				30	
Carbon Disulfide	U	5.00	ppbv		U				30	
Isopropyl Mercaptan	U	5.00	ppbv		U				30	
tert-Butyl Mercaptan	U	5.00	ppbv		U				30	
n-Propyl Mercaptan	U	5.00	ppbv		U				30	
Ethyl Methyl Sulfide	U	5.00	ppbv		U				30	
Thiophene	U	5.00	ppbv		U				30	
Isobutyl Mercaptan	U	5.00	ppbv		U				30	
n-Butyl Mercaptan	U	5.00	ppbv		U				30	
Diethyl Sulfide	U	5.00	ppbv		U				30	
3-Methyl Thiophene	U	5.00	ppbv		U				30	
Tetrahydrothiophene	U	5.00	ppbv		U				30	
Dimethyl Disulfide	U	5.00	ppbv		U				30	
2-Ethyl Thiophene	U	5.00	ppbv		U				30	

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
11-Dec-10 14:50

Reduced Sulfur Compounds in Air by GC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012010 - Prep Method: None										
Duplicate (B012010-DUP1)	**Source: 1012077-04**		**Prepared:**	**08-Dec-10 08:00**			**Analyzed:**	**08-Dec-10 13:52**		
Diethyl Disulfide	U	5.00	ppbv		U				30	
2,5-Dimethyl Thiophene	U	5.00	ppbv		U				30	
Matrix Spike (B012010-MS1)	**Source: 1012077-04**		**Prepared:**	**08-Dec-10 08:00**			**Analyzed:**	**08-Dec-10 14:04**		
Hydrogen sulfide	30.7	5.00	ppbv	25.0	U	123	63-128 %			
Carbonyl Sulfide	35.4	5.00	ppbv	25.0	U	142	78-195 %			
Methyl Mercaptan	29.0	5.00	ppbv	25.0	U	116	58-131 %			
Ethyl Mercaptan	29.5	5.00	ppbv	25.0	U	118	52-138 %			
Dimethyl Sulfide	29.4	5.00	ppbv	25.0	U	118	75-118 %			
Carbon Disulfide	34.0	5.00	ppbv	25.0	U	136	71-186 %			
Isopropyl Mercaptan	29.8	5.00	ppbv	25.0	U	119	66-117 %			J
tert-Butyl Mercaptan	29.2	5.00	ppbv	25.0	U	117	52-138 %			
n-Propyl Mercaptan	30.3	5.00	ppbv	25.0	U	121	61-128 %			
Ethyl Methyl Sulfide	29.0	5.00	ppbv	25.0	U	116	70-123 %			
Thiophene	28.2	5.00	ppbv	25.0	U	113	69-123 %			
Isobutyl Mercaptan	29.5	5.00	ppbv	25.0	U	118	57-127 %			
n-Butyl Mercaptan	28.9	5.00	ppbv	25.0	U	116	74-124 %			
Diethyl Sulfide	28.9	5.00	ppbv	25.0	U	115	63-116 %			
3-Methyl Thiophene	27.6	5.00	ppbv	25.0	U	110	72-121 %			
Tetrahydrothiophene	27.1	5.00	ppbv	25.0	U	108	60-128 %			
Dimethyl Disulfide	28.8	5.00	ppbv	25.0	U	115	67-124 %			
2-Ethyl Thiophene	29.4	5.00	ppbv	25.0	U	117	63-131 %			
Diethyl Disulfide	26.6	5.00	ppbv	25.0	U	107	57-135 %			
2,5-Dimethyl Thiophene	27.1	5.00	ppbv	25.0	U	108	58-136 %			
Matrix Spike Dup (B012010-MSD1)	**Source: 1012077-04**		**Prepared:**	**08-Dec-10 08:00**			**Analyzed:**	**08-Dec-10 14:24**		
Hydrogen sulfide	29.1	5.00	ppbv	25.0	U	116	63-128 %	5	30	
Carbonyl Sulfide	34.3	5.00	ppbv	25.0	U	137	78-195 %	3	30	

LAKELAND LABORATORIES

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
11-Dec-10 14:50

Reduced Sulfur Compounds in Air by GC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012010 - Prep Method: None										
Matrix Spike Dup (B012010-MSD1)	**Source: 1012077-04**	**Prepared:**	**08-Dec-10 08:00**	**Analyzed:**	**08-Dec-10 14:24**					
Methyl Mercaptan	27.7	5.00	ppbv	25.0	U	111	58-131 %	5	30	
Ethyl Mercaptan	28.7	5.00	ppbv	25.0	U	115	52-138 %	3	30	
Dimethyl Sulfide	28.3	5.00	ppbv	25.0	U	113	75-118 %	4	30	
Carbon Disulfide	33.2	5.00	ppbv	25.0	U	133	71-186 %	2	30	
Isopropyl Mercaptan	29.0	5.00	ppbv	25.0	U	116	66-117 %	3	30	
tert-Butyl Mercaptan	28.4	5.00	ppbv	25.0	U	113	52-138 %	3	30	
n-Propyl Mercaptan	29.0	5.00	ppbv	25.0	U	116	61-128 %	4	30	
Ethyl Methyl Sulfide	27.5	5.00	ppbv	25.0	U	110	70-123 %	5	30	
Thiophene	26.9	5.00	ppbv	25.0	U	108	69-123 %	5	30	
Isobutyl Mercaptan	28.9	5.00	ppbv	25.0	U	115	57-127 %	2	30	
n-Butyl Mercaptan	28.0	5.00	ppbv	25.0	U	112	74-124 %	3	30	
Diethyl Sulfide	28.0	5.00	ppbv	25.0	U	112	63-116 %	3	30	
3-Methyl Thiophene	26.6	5.00	ppbv	25.0	U	107	72-121 %	3	30	
Tetrahydrothiophene	25.8	5.00	ppbv	25.0	U	103	60-128 %	5	30	
Dimethyl Disulfide	27.9	5.00	ppbv	25.0	U	111	67-124 %	3	30	
2-Ethyl Thiophene	29.1	5.00	ppbv	25.0	U	116	63-131 %	0.8	30	
Diethyl Disulfide	25.7	5.00	ppbv	25.0	U	103	57-135 %	4	30	
2,5-Dimethyl Thiophene	26.5	5.00	ppbv	25.0	U	106	58-136 %	2	30	

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
11-Dec-10 14:50

Notes and Definitions

J	Estimated Value
DET	Analyte DETECTED
U	Analyte NOT DETECTED at or above the MDL
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
PQL	Practical Quantitation Limit

Results of liquid samples are reported on a wet-weight basis unless otherwise indicated. Results of solid samples are reported on a dry-weight basis unless otherwise indicated.

LAKELAND LABORATORIES, LLC
1910 HARDEN BOULEVARD, SUITE 101
LAKELAND, FLORIDA 33803-1829
PHONE: (863) 686-4271 FAX: (863) 686-4389

Work Order # 101207-4

Chain of Custody Record

Company: ENVIRON International Corp.	Project Name: FORT BRAGG – 8 HOMES	Page 1 of 1
Address: 10150 Highland Manor Drive, Suite 440, Tampa, FL 33610	Project #:	DEP Form #: 62-770.900(2)
	Project Manager: James L. Poole, PhD, CIH	Form Title: Chain of Custody Record
	Project Location: [redacted]	Effective Date: September 23, 1997
Phone: (813) 628-4325 Fax: (813) 628-4983	P. O. #:	FDEP Facility No.:
Sampled by [Print Name(s)] / Affiliation: Nitu Shah James L. Poole, PhD, CIH/ENVIRON	Preservatives (see codes)	Project Name:
Sampler(s) Signature(s)	Analyses Requested	REQUESTED DUE DATE / /

Item No.	Field ID No.	Sampled Date	Sampled Time	Grab or Composite	Matrix (see codes)	Number of Containers	ASTM D5504-08	Remarks	Lab. No.
1	120710-305-10	12/07/2010	1420	G	A	1	+	kitchen	001
2	120710-305-11		1425	G	A	1	+	master bedroom	002
3	120710-305-12		1430	G	A	1	+	outdoor front	003
4	120710-305-13		1435	G	A	1	+	outdoor rear	004

Shipment Method <= Total Number of Containers

Out: / /	Via:	Item No.	Relinquished by / Affiliation	Date	Time	Accepted by / Affiliation	Date	Time
Returned: / /	Via:	1-4	ENVIRON	12/07/2010	1800	FEDEX 8739 6797 3756 TLL	12.7.10	1800
Additional Comments:		1-4	FEDEX 8739 6797 2756	12-8-10	0745		12.8.10	0745

Cooler No.(s) / Temperature(s) (°C)	Sampling Kit No.	Equipment ID No.
Ambient °C		

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) O = Other (specify)

PRESERVATIVE CODES: H = Hydrochloric acid + ice I = Ice only N = Nitric acid + ice S = Sulfuric acid + ice O = Other (specify)

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16 December 2010

ENVIRON International Corp.
ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

RE: Fort Bragg -

Project Location: [redacted] Fort Bragg, NC 28307

Dear ENVIRON International Corp.:

The attached Analytical and QC Summaries list the analytical results from the analyses performed on the samples received on **13-Dec-10 10:16** under the project name referenced above.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies and QA/QC procedures. Lakeland Laboratories is limited in liability to the actual cost of the pertinent analysis done. Your samples will be retained by Lakeland Laboratories for a period of 30 days following receipt of the samples. After that time, they will be properly disposed of without further notice, unless there is a pre-arranged contractual arrangement. We reserve the right to return any unused samples, extracts or related solutions to you, if we consider it necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Lakeland Laboratories. This report will be filed for at least 3 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you.

We thank you for selecting Lakeland Laboratories Incorporated to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Sincerely,

Technical Director
Jim Crawford For Mark Alessandroni

LAKELAND LABORATORIES

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(863) 686-4271 Phone
(863) 686-4389 Fax

ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted] - Fort Bragg, NC 28307
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 13:37

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
120710-305-1a	1012137-01	Drywall	07-Dec-10 00:00	13-Dec-10 10:16
120710-305-2a	1012137-02	Drywall	07-Dec-10 00:00	13-Dec-10 10:16
120710-305-3a	1012137-03	Drywall	07-Dec-10 00:00	13-Dec-10 10:16

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted] - Fort Bragg, NC 28307
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 13:37

120710-305-1a
1012137-01 (Drywall)

Analyte	Result	PQL	MDL	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Lakeland Laboratories, LLC									
Elemental Sulfur by HPLC									Batch: B012018
Elemental Sulfur	U	2.00	1.00	mg/kg	1	13-Dec-10	15-Dec-10	LL-SULFUR	

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10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted] - Fort Bragg, NC 28307
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 13:37

120710-305-2a

1012137-02 (Drywall)

Analyte	Result	PQL	MDL	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Lakeland Laboratories, LLC									
Elemental Sulfur by HPLC									Batch: B012018
Elemental Sulfur	U	2.00	1.00	mg/kg	1	13-Dec-10	15-Dec-10	LL-SULFUR	

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted] - Fort Bragg, NC 28307
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 13:37

120710-305-3a
1012137-03 (Drywall)

Analyte	Result	PQL	MDL	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Lakeland Laboratories, LLC									
Elemental Sulfur by HPLC									Batch: B012018
Elemental Sulfur	U	2.00	1.00	mg/kg	1	13-Dec-10	15-Dec-10	LL-SULFUR	

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10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted] - Fort Bragg, NC 28307
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 13:37

Elemental Sulfur by HPLC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012018 - Prep Method: NO PREP											
Blank (B012018-BLK1)				Prepared: 13-Dec-10 Analyzed: 14-Dec-10							
Elemental Sulfur	U	2.00	1.00	mg/kg							
LCS (B012018-BS1)				Prepared: 13-Dec-10 Analyzed: 14-Dec-10							
Elemental Sulfur	134	2.00	1.00	mg/kg	167		80	70-130			
Duplicate (B012018-DUP1)		Source: 1012128-01		Prepared: 13-Dec-10 Analyzed: 14-Dec-10							
Elemental Sulfur	U	2.00	1.00	mg/kg		U				30	
Duplicate (B012018-DUP2)		Source: 1012136-02		Prepared: 13-Dec-10 Analyzed: 15-Dec-10							
Elemental Sulfur	U	2.00	1.00	mg/kg		U				30	
Duplicate (B012018-DUP3)		Source: 1012142-02		Prepared: 13-Dec-10 Analyzed: 15-Dec-10							
Elemental Sulfur	U	2.00	1.00	mg/kg		U				30	
Matrix Spike (B012018-MS1)		Source: 1012128-02		Prepared: 13-Dec-10 Analyzed: 14-Dec-10							
Elemental Sulfur	130	2.00	1.00	mg/kg	167	U	78	70-130			
Matrix Spike (B012018-MS2)		Source: 1012136-03		Prepared: 13-Dec-10 Analyzed: 15-Dec-10							
Elemental Sulfur	133	2.00	1.00	mg/kg	167	U	80	70-130			
Matrix Spike (B012018-MS3)		Source: 1012142-03		Prepared: 13-Dec-10 Analyzed: 15-Dec-10							
Elemental Sulfur	152	2.00	1.00	mg/kg	167	U	91	70-130			
Matrix Spike Dup (B012018-MSD1)		Source: 1012128-02		Prepared: 13-Dec-10 Analyzed: 14-Dec-10							
Elemental Sulfur	133	2.00	1.00	mg/kg	167	U	80	70-130	2	30	
Matrix Spike Dup (B012018-MSD2)		Source: 1012136-03		Prepared: 13-Dec-10 Analyzed: 15-Dec-10							
Elemental Sulfur	137	2.00	1.00	mg/kg	167	U	82	70-130	3	30	

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted] Fort Bragg, NC 28307
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 13:37

Elemental Sulfur by HPLC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012018 - Prep Method: NO PREP											
Matrix Spike Dup (B012018-MSD3)	**Source: 1012142-03**			Prepared: 13-Dec-10 Analyzed: 15-Dec-10							
Elemental Sulfur	148	2.00	1.00	mg/kg	167	U	89	70-130	3	30	

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted] - Fort Bragg, NC 28307
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 13:37

Notes and Definitions

DET	Analyte DETECTED
U	Analyte NOT DETECTED at or above the MDL
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
PQL	Practical Quantitation Limit

Results of liquid samples are reported on a wet-weight basis unless otherwise indicated. Results of solid samples are reported on a dry-weight basis unless otherwise indicated.

ENVIRON #1012137

Chain of Custody

Page 1 of 1

ENVIRON International Corporation
10150 Highlands Manor Drive, Ste 440
Tampa, FL 33610
Tel: 813-628-4325 FAX: 813.628.4983

Project name: Fort Bragg [redacted]
Site Address [redacted] Fort Bragg, NC 28307
Site Owner:
Phase # 2

Date: 12/10/10

Sample ID	Date Collected	Time Collected	Description	Medium	Analysis Requested
120710-30S-1a	12.07.10		drywall sample - Master bedroom closet - east wall	Solid	elementals
120710-30S-2a	↓		drywall sample - family room - south wall	Solid	elementals
120710-30S-3a			drywall sample - south bedroom closet - north wall	solid	elementals

Shipped to: Lakeland Labs
Address: 1910 Harden Blvd Suite 101, Lakeland, FL 33803

Shipment Method: pick-up
Tracking number:
Preservation:

Date:

Collected by: Name and Date: James L. Poole 12.07.10
Signature: (see original COC)

Comments: subsampled for testing

Relinquished by: Name: Cindy Lyons
Signature: [signature] Date: 12-13-10 Time: 10:16

Received by: Name: W GRIGGOFF
Signature: [signature] Date: 12-13-10 Time: 10:16

Relinquished by: Name:
Signature: Date: Time:

Received by: Name:
Signature: Date: Time:

Relinquished by: Name:
Signature: Date: Time:

Received by: Name:
Signature: Date: Time:

ENVIRON

January 19, 2011

[redacted]
Chief, Environmental Compliance Branch
Directorate of Public Works
Bldg. 3-1137, Butner Road
Fort Bragg, North Carolina 28310

Via email: [redacted]@us.army.mil

RE: [redacted] Fort Bragg, North Carolina 28307

Dear [redacted],

Pursuant to your request, ENVIRON has evaluated this home to determine whether there is evidence in the home of effects from defective gypsum wallboard. ENVIRON's evaluation included:

- the measurement of indoor and outdoor air using a calibrated direct-reading hydrogen sulfide analyzer
- the collection of indoor and outdoor ambient air samples for subsequent laboratory analysis
- examination of the air handler of the HVAC system, copper portions of plumbing and electrical components, including receptacles, switches and exposed copper wiring
- opening walls to inspect for labeling or manufacturing marks on wallboard
- collection of wallboard samples for analysis of elemental sulfur

On November 4, 2010, ENVIRON collected indoor and outdoor ambient air samples for subsequent laboratory analysis (Sample 110410-4-1 from the first floor family room; Sample 110410-4-2 from the second floor hallway; and Sample 110410-4-3 from outdoors). ENVIRON delivered the air samples to Lakeland Labs, LLC, an independent accredited laboratory, which tested the air samples for the presence and concentration of 20 sulfur-containing compounds using American Society for Testing and Materials (ASTM) Method D-5504. As you can see from the attached laboratory results, Lakeland Labs, LLC did not report measureable levels of any of the 20 sulfur compounds. In addition, the calibrated direct-reading hydrogen sulfide analyzer detected no indoor concentrations of hydrogen sulfide above the levels detected outside of the home.

ENVIRON also inspected copper components associated with plumbing, as well as electrical components for discoloration and residue characteristic of corrosion from exposure to defective gypsum wallboard. No black surface accumulations were observed.

ENVIRON cut openings in walls to observe the unpainted side of wallboard for labeling or markings indicative of Chinese-manufactured wallboard. No markings associated with Chinese-manufactured wallboard were found. We did not detect odors characteristic of defective Chinese-manufactured wallboard in the home or while opening walls.

On November 5, 2010, ENVIRON collected and submitted ten wallboard samples to Lakeland Labs, LLC for analysis of elemental sulfur content. Elemental sulfur is a particular form of sulfur present at elevated levels in defective wallboard that produces corrosive sulfide gases. Analyzed samples were collected from the living room (110510-4-1a), the hallway (110510-4-2a), the family room (110510-4-3a), the kitchen (110510-4-4a), the stairwell (110510-4-5a), the rear spare bedroom (110510-4-6a), the middle spare bedroom (110510-4-7a), the front spare bedroom (110510-4-8a), the master bedroom (110510-4-9a), and the second floor hallway (110510-4-10a). The laboratory did not detect elemental sulfur in any of the samples, as shown in the attached report. None of these samples have the chemical composition associated with defective wallboard.

Based on these observations, ENVIRON concludes that there is no evidence of effects from defective wallboard in the subject home. Also, we did not find indications suggesting that the wallboard was manufactured in China. If you have any questions or concerns regarding our evaluation, please do not hesitate to contact us.

Sincerely,

Robert P. DeMott, PhD, DABT
Principal Toxicologist

James L. Poole, PhD, CIH
Principal Industrial Hygienist

Enclosure: Attachment 1, Laboratory Results

ATTACHMENT 1

[redacted]

LABORATORY RESULTS

Analytical Report #: 23968

for

ENVIRON International Corp.

Project Manager: ENVIRON International Corp.

Project Name: Directorate of Public Works

Project Location: Fort Bragg - 4

09-NOV-10

LAKELAND
LABORATORIES

NELAP Certification Number: E84880

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09-NOV-10

ENVIRON International Corp.
ENVIRON International Corp.
10150 Highland Manor Drive
Suite 440
Tampa, FL 33610

Reference: LAKELAND Work Order No: **23968**
Directorate of Public Works
Project Location: Fort Bragg - 4
Project Ref No:
Lab Quote No:

Dear ENVIRON International Corp. :

The attached Analytical and QC Summaries list the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Lakeland Laboratories Work Order numbered **23968**.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies and QA/QC procedures. Lakeland Laboratories is limited in liability to the actual cost of the pertinent analysis done. Your samples will be retained by Lakeland Laboratories for a period of 30 days following receipt of the samples. After that time, they will be properly disposed of without further notice, unless there is a pre-arranged contractual arrangement. We reserve the right to return any unused samples, extracts or related solutions to you, if we consider it necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Lakeland Laboratories. This report will be filed for at least 3 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you.

We thank you for selecting Lakeland Laboratories Incorporated to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Sincerely,

Mark A. Alessandroni, PE
Technical Director

1910 Harden Boulevard, Suite 101
Lakeland, Florida 33803-1829
Phone: (863) 686-4271
Fax: (863) 686-4389

CASE NARRATIVE

LAKELAND LABORATORIES

Client Name: ENVIRON International Corp.
Project Name: Directorate of Public Works

Project ID:
Work Order Number: 23968

Report Date: 09-NOV-10
Date Received: 05-NOV-10

Sample receipt non conformances and Comments:

Samples were delivered via overnight courier (Federal Express Airbill No. 4651 6266 74) and received in the laboratory at 8:48 AM on November 5, 2010. The samples were analyzed the same day, within the mandated holding time of 24 hours. Unless noted elsewhere in the report, no deviations from the laboratory SOP were made.

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch:	*LBA-71492*	*Sulfur Compounds in Air By ASTM D5504-08*
All compounds fell within acceptance criteria for relative percent difference (precision) and percent recovery (accuracy) in the matrix spike-matrix spike duplicate and blank spike-blank spike duplicate QA pairs. A method reporting limit (MRL) standard was run and all target analytes were detected, confirming sensitivity of the analytical system.		

LAKELAND LABORATORIES

Certificate of Analysis Summary 23968

ENVIRON International Corp., Tampa, FL

Project Name: Directorate of Public Works

Project Id:

Contact: ENVIRON International Corp.

Project Location: Fort Bragg - 4

Date Received in Lab: Fri Nov-05-10 08:48 am

Report Date: 09-NOV-10

Project Manager: Mark A. Alessandroni, PE

Analysis Requested											
	Lab Id:	23968-001		23968-002		23968-003					
	Field Id:	110410-4-1		110410-4-2		110410-4-3					
	Depth:										
	Matrix:	AMBIENT AIR		AMBIENT AIR		AMBIENT AIR					
	Sampled:	Nov-04-10 15:35		Nov-04-10 15:38		Nov-04-10 15:42					
Sulfur Compounds in Air By ASTM D5504-08	*Extracted:*										
	Analyzed:	Nov-05-10 12:26		Nov-05-10 12:37		Nov-05-10 12:49					
	Units/RL:	ppbv	PQL	ppbv	PQL	ppbv	PQL				
Hydrogen Sulfide		U	5.00	U	5.00	U	5.00				
Carbonyl Sulfide		U	5.00	U	5.00	U	5.00				
Methyl Mercaptan		U	5.00	U	5.00	U	5.00				
Ethyl Mercaptan		U	5.00	U	5.00	U	5.00				
Dimethyl Sulfide		U	5.00	U	5.00	U	5.00				
Carbon Disulfide		U	5.00	U	5.00	U	5.00				
Isopropyl Mercaptan		U	5.00	U	5.00	U	5.00				
tert-Butyl Mercaptan		U	5.00	U	5.00	U	5.00				
n-Propyl Mercaptan		U	5.00	U	5.00	U	5.00				
Ethyl Methyl Sulfide		U	5.00	U	5.00	U	5.00				
Thiophene		U	5.00	U	5.00	U	5.00				
Isobutyl Mercaptan		U	5.00	U	5.00	U	5.00				
n-Butyl Mercaptan		U	5.00	U	5.00	U	5.00				
Diethyl Sulfide		U	5.00	U	5.00	U	5.00				
3-Methyl Thiophene		U	5.00	U	5.00	U	5.00				
Tetrahydrothiophene		U	5.00	U	5.00	U	5.00				
Dimethyl Disulfide		U	5.00	U	5.00	U	5.00				
2-Ethyl Thiophene		U	5.00	U	5.00	U	5.00				
Diethyl Disulfide		U	5.00	U	5.00	U	5.00				
2,5-Dimethyl Thiophene		U	5.00	U	5.00	U	5.00				

LAKELAND
LABORATORIES

Quality Control Sample Legend

Lakeland Labs Quality Control Sample Legend

This analytical report may include results for various quality assurance/quality control (QA/QC) samples prepared and analyzed as required within various sample preparation and analytical batches. In-house sample identification is based on the Lakeland Labs Work Order No. followed by the Work Order Item No. For example, the second item on Work Order No. 10000 would be assigned Lab Sample ID 10000-002. The QA/QC sample identifications are affixed with suffixes to differentiate them from the actual sample results. For QA/QC samples generated in-house such as method blanks, blank spikes, blank spike duplicates, etc., the preparation or analytical batch number is used instead of the Work Order No. To assist the data reviewer, the following legend provides information on the various QA/QC samples and the suffixes used to denote them:

- BLK Method Blank. A method blank, also known as a laboratory control blank (LCB), is a sample of a matrix similar to the batch of associated samples (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences are present at concentrations that impact the analytical results for sample analyses.

- BKS Blank Spike. A blank spike, also known as a calibration verification or laboratory control sample (LCS), is a sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes. It is generally used to establish intra-laboratory or analyst-specific precision and bias (accuracy) or to assess the performance of all or a portion of the measurement system. Successful analysis of the blank spike sample demonstrates an analytical system's ability to accurately measure target analyte concentrations.

- BSD Blank Spike Duplicate. A blank spike duplicate, also known as a laboratory control sample duplicate (LCSD), is a second blank spike sample, often bracketing a group of samples within a batch. Successful analysis of the blank spike duplicate sample demonstrates not only an analytical system's continuing ability to accurately measure target analyte concentrations, but also, when compared with the blank spike results, the system's precision.

- S Matrix Spike (MS). A matrix spike is a sample prepared by adding a known mass of target analyte(s) to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. Matrix spikes are used, for example, to determine the effect of the matrix on a method's recovery efficiency.

- SD Matrix Spike Duplicate (MSD). A matrix spike duplicate is a second replicate matrix spike prepared in the laboratory and analyzed to obtain a measure of the precision of the recovery for each analyte.

- D Matrix Duplicate (MD). A matrix duplicate is a second replicate matrix prepared in the laboratory and analyzed to obtain a measure of precision.

- MRL Method Reporting Limit. A method reporting limit standard is an analyte-free matrix similar to the sample matrices spiked with one or more of the target analytes at a concentration equal to or less than the method reporting limit (also known as the practical quantitation limit or PQL). Successful analysis of the MRL standard demonstrates the analytical system's ability to identify the spiked analytes of interest at the MRL/PQL.

LAKELAND
LABORATORIES

Flagging Criteria

FLORIDA Flagging Criteria

Data were reviewed by the Department Supervisor and QA Director

A Value reported is the mean (average) of two or more determinations. This code shall be used if the reported value is the average of results for two or more discrete and separate samples. These samples shall have been processed and analyzed independently. Do not use this code if the data are the result of replicate analysis on the same sample aliquot, extract or digestate.

B Results based upon colony counts outside the acceptable range. This code applies to microbiological tests and specifically to membrane filter colony counts. The code is to be used if the colony count is generated from a plate in which the total number of coliform colonies is outside the method indicated ideal range. This code is not to be used if a 100 mL sample has been filtered and the colony count is less than the lower value of the ideal range.

J Estimated value. A "J" value shall be accompanied by a narrative justification for its use. Where possible, the organization shall report whether the actual value is less than or greater than the reported value. A "J" value shall not be used as a substitute for K, L, M, T, V, or Y, however, if additional reasons exist for identifying the value as estimate (e.g., matrix spiked failed to meet acceptance criteria), the "J" code may be added to a K, L, M, T, V, or Y. The following are some examples of narrative descriptions that may accompany a "J" code: .

J1: No known quality control criteria exist for the component;

J2: The reported value failed to meet the established quality control criteria for either precision or accuracy (the specific failure must be identified);

J3: The sample matrix interfered with the ability to make any accurate determination;

J4: The data are questionable because of improper laboratory or field protocols

Q Sample held beyond the accepted holding time. This code shall be used if the value is derived from a sample that was prepared or analyzed after the approved holding time restrictions for sample preparation or analysis.

T Value reported is less than the laboratory method detection limit. The value is reported for informational purposes, only and shall not be used in statistical analysis.

U Indicates that the compound was analyzed for but not detected. This symbolshall be used to indicate that the specified component was not detected. The value associated with the qualifier shall be the laboratory method detection limit. Unless requested by the client, less than the method detection limit values shall not be reported (see "T" above).

V Indicates that the analyte was detected in both the sample and the associated method blank. Note: the value in the blank shall not be subtracted from associated samples.

Y The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

LAKELAND
LABORATORIES

Flagging Criteria

FLORIDA Flagging Criteria

*	Not analyzed due to interference
R	Significant rain in the past 48 hours. (Significant rain typically involves rain in excess of 1/2 inch within the past 48 hours.) This code shall be used when the rainfall might contribute to a lower than normal value.
!	Data deviate from historically established concentration ranges.
+	Analyte falls outside current scope of NELAP accreditation.
X	In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
D	The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
F	When reporting species: F indicates the female sex. Otherwise it indicates RPD value is outside the acceptable range.
L	Off-scale high. Actual value is known to be greater than value given. To be used when the concentration of the analyte is above the acceptable level for quantitation (exceeds the linear range or highest calibration standard) and the calibration curve is known to exhibit a negative deflection.
H	Value based on field kit determination; results may not be accurate. This code shall be used if a field screening test (i.e., field gas chromatograph data, immunoassay, vendor-supplied field kit, etc.) was used to generate the value and the field kit or method has not been recognized by the Department as equivalent to laboratory methods.

LAKELAND LABORATORIES

Sample Duplicate Recovery

Project Name: Directorate of Public Works

Work Order #: 23968 **Report Date:** 09-NOV-10

Lab Batch #: 71492 **Project ID:**

Date Analyzed: 11/05/2010 **Date Prepared:** 11/05/2010 **Analyst:** GARGAR

QC- Sample ID: 23969-001 D **Batch #:** 1 **Matrix:** Air

Reporting Units: ppbv

Sulfur Compounds in Air By ASTM D5504-08	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Hydrogen Sulfide	<5.00	<5.00	NC	30	
Carbonyl Sulfide	<5.00	<5.00	NC	30	
Methyl Mercaptan	<5.00	<5.00	NC	30	
Ethyl Mercaptan	<5.00	<5.00	NC	30	
Dimethyl Sulfide	<5.00	<5.00	NC	30	
Carbon Disulfide	<5.00	<5.00	NC	30	
Isopropyl Mercaptan	<5.00	<5.00	NC	30	
tert-Butyl Mercaptan	<5.00	<5.00	NC	30	
n-Propyl Mercaptan	<5.00	<5.00	NC	30	
Ethyl Methyl Sulfide	<5.00	<5.00	NC	30	
Thiophene	<5.00	<5.00	NC	30	
Isobutyl Mercaptan	<5.00	<5.00	NC	30	
n-Butyl Mercaptan	<5.00	<5.00	NC	30	
Diethyl Sulfide	<5.00	<5.00	NC	30	
3-Methyl Thiophene	<5.00	<5.00	NC	30	
Tetrahydrothiophene	<5.00	<5.00	NC	30	
Dimethyl Disulfide	<5.00	<5.00	NC	30	
2-Ethyl Thiophene	<5.00	<5.00	NC	30	
Diethyl Disulfide	<5.00	<5.00	NC	30	
2,5-Dimethyl Thiophene	<5.00	<5.00	NC	30	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

LAKELAND LABORATORIES

Form 3 - MS / MSD Recoveries

Project Name: Directorate of Public Works

Report Date: 09-NOV-10

Work Order # : 23968 **Project ID:**

Lab Batch ID: 71492 **QC- Sample ID:** 23969-001 S **Batch #:** 1 **Matrix:** Ambient Air

Date Analyzed: 11/05/2010 **Date Prepared:** 11/05/2010 **Analyst:** GARGAR

Reporting Units: ppbv

Sulfur Compounds in Air By ASTM D5504-08 Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Hydrogen Sulfide	<5.00	25.0	23.9	96	25.0	23.4	94	2	63-128	30	
Carbonyl Sulfide	<5.00	25.0	27.3	109	25.0	27.0	108	1	78-195	30	
Methyl Mercaptan	<5.00	25.0	24.3	97	25.0	23.5	94	3	58-131	30	
Ethyl Mercaptan	<5.00	25.0	25.0	100	25.0	23.8	95	5	52-138	30	
Dimethyl Sulfide	<5.00	25.0	24.2	97	25.0	23.4	94	3	75-118	30	
Carbon Disulfide	<5.00	25.0	27.7	111	25.0	26.8	107	3	71-186	30	
Isopropyl Mercaptan	<5.00	25.0	24.6	98	25.0	23.6	94	4	66-117	30	
tert-Butyl Mercaptan	<5.00	25.0	24.9	100	25.0	24.6	98	1	52-138	30	
n-Propyl Mercaptan	<5.00	25.0	24.9	100	25.0	24.7	99	1	61-128	30	
Ethyl Methyl Sulfide	<5.00	25.0	23.5	94	25.0	23.0	92	2	70-123	30	
Thiophene	<5.00	25.0	23.7	95	25.0	23.4	94	1	69-123	30	
Isobutyl Mercaptan	<5.00	25.0	24.6	98	25.0	24.1	96	2	57-127	30	
n-Butyl Mercaptan	<5.00	25.0	24.4	98	25.0	24.0	96	2	74-124	30	
Diethyl Sulfide	<5.00	25.0	24.4	98	25.0	23.7	95	3	63-116	30	
3-Methyl Thiophene	<5.00	25.0	23.6	94	25.0	23.0	92	3	72-121	30	
Tetrahydrothiophene	<5.00	25.0	23.8	95	25.0	23.3	93	2	60-128	30	
Dimethyl Disulfide	<5.00	25.0	24.0	96	25.0	23.5	94	2	67-124	30	
2-Ethyl Thiophene	<5.00	25.0	24.6	98	25.0	23.6	94	4	63-131	30	
Diethyl Disulfide	<5.00	25.0	22.9	92	25.0	22.9	92	0	57-135	30	
2,5-Dimethyl Thiophene	<5.00	25.0	23.8	95	25.0	22.8	91	4	58-136	30	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(C-F)/(C+F)

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

LAKELAND LABORATORIES

BS / BSD Recoveries

Project Name: Directorate of Public Works

Report Date 09-NOV-10

Work Order #: 23968 **Project ID:**

Analyst: GARGAR **Date Prepared:** 11/05/2010 **Date Analyzed:** 11/05/2010

Lab Batch ID: 71492 **Sample:** 71492-1-BKS **Batch #:** 1 **Matrix:** Air

Units: ppbv

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Sulfur Compounds in Air By ASTM D5504-08 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Hydrogen Sulfide	<5.00	25.0	23.2	93	25.0	26.3	105	13	63-128	30	
Carbonyl Sulfide	<5.00	25.0	22.6	90	25.0	25.3	101	11	78-195	30	
Methyl Mercaptan	<5.00	25.0	23.2	93	25.0	25.8	103	11	58-131	30	
Ethyl Mercaptan	<5.00	25.0	23.6	94	25.0	25.8	103	9	52-138	30	
Dimethyl Sulfide	<5.00	25.0	23.4	94	25.0	25.8	103	10	75-118	30	
Carbon Disulfide	<5.00	25.0	22.2	89	25.0	25.1	100	12	71-186	30	
Isopropyl Mercaptan	<5.00	25.0	23.2	93	25.0	26.0	104	11	66-117	30	
tert-Butyl Mercaptan	<5.00	25.0	23.2	93	25.0	25.7	103	10	52-138	30	
n-Propyl Mercaptan	<5.00	25.0	23.9	96	25.0	26.2	105	9	61-128	30	
Ethyl Methyl Sulfide	<5.00	25.0	22.1	88	25.0	25.4	102	14	70-123	30	
Thiophene	<5.00	25.0	23.8	95	25.0	26.5	106	11	69-123	30	
Isobutyl Mercaptan	<5.00	25.0	23.8	95	25.0	26.8	107	12	57-127	30	
n-Butyl Mercaptan	<5.00	25.0	23.5	94	25.0	26.5	106	12	74-124	30	
Diethyl Sulfide	<5.00	25.0	24.1	96	25.0	26.2	105	8	63-116	30	
3-Methyl Thiophene	<5.00	25.0	23.3	93	25.0	25.9	104	11	72-121	30	
Tetrahydrothiophene	<5.00	25.0	24.4	98	25.0	26.2	105	7	60-128	30	
Dimethyl Disulfide	<5.00	25.0	23.8	95	25.0	26.6	106	11	67-124	30	
2-Ethyl Thiophene	<5.00	25.0	24.0	96	25.0	26.2	105	9	63-131	30	
Diethyl Disulfide	<5.00	25.0	24.0	96	25.0	25.9	104	8	57-135	30	
2,5-Dimethyl Thiophene	<5.00	25.0	23.1	92	25.0	25.9	104	11	58-136	30	

Relative Percent Difference RPD = 200*|(D-F)/(D+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

LAKELAND LABORATORIES, LLC
1910 HARDEN BOULEVARD, SUITE 101
LAKELAND, FLORIDA 33803-1829
PHONE: (863) 686-4271 FAX: (863) 686-4389

Work Order # 23968

#1011042

Florida NELAP Certificate No. E84880

ACCREDITED IN ACCORDANCE WITH nelac

Chain of Custody Record

Company: ENVIRON International Corp.	Project Name: Directorate of Public Works	Page 1 of 1
Address: 10150 Highland Manor Drive, Suite 440, Tampa, FL 33610	Project #:	DEP Form #: 62-770.900(2)
	Project Manager: [redacted]	Form Title: Chain of Custody Record
	Project Location: Fort Bragg - 4	Effective Date: September 23, 1997
Phone: (813) 628-4325 Fax: (813) 628-4983	P. O. #:	FDEP Facility No.:
Sampled by [Print Name(s)] / Affiliation: James L. Poole / ENVIRON		Project Name:
Sampler(s) Signature(s): James L Poole		REQUESTED DUE DATE: / /

Item No.	Field ID No.	Sampled Date	Sampled Time	Grab or Composite	Matrix (see codes)	Number of Containers	Preservatives (see codes)	Analyses Requested: ASTM D-5504	Remarks	Lab. No.
1	110410-4-1	11/4/10	15.35	Grab	A	1	--	X		001
2	110410-4-2	11/4/10	15.38	Grab	A	1		X		002
3	110410-4-3	11/4/10	15:42	Grab	A	1		X		003
						3	<= Total Number of Containers			

Shipment Method		Item No.	Relinquished by / Affiliation	Date	Time	Accepted by / Affiliation	Date	Time
Out: / /	Via:	1-3	James L Poole / ENVIRON	11/4/10	1753	FedEx 465 1626 6674	11.4.10	1753
Returned: / /	Via:	1-3	465 1626 6674	11/5/10	848	Signature / L.L.	11/5/10	848
Additional Comments:								

Cooler No.(s) / Temperature(s) (°C)	Sampling Kit No.	Equipment ID No.
NA °C		

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) O = Other (specify)

PRESERVATIVE CODES: H = Hydrochloric acid + ice I = Ice only N = Nitric acid + ice S = Sulfuric acid + ice O = Other (specify)

Analytical Report #: 24014

for

ENVIRON International Corp.

Project Manager: ENVIRON International Corp.

Project Name: DPW- Ft. Bragg

Project Location: [redacted] Ft. Bragg, NC

17-NOV-10

LAKELAND
LABORATORIES

NELAP Certification Number: E84880

1910 Harden Boulevard, Suite 101
Lakeland, Florida 33803-1829
Phone: (863) 686-4271
Fax: (863) 686-4389

LAKELAND
LABORATORIES

17-NOV-10

ENVIRON International Corp.
ENVIRON International Corp.
10150 Highland Manor Drive
Suite 440
Tampa, FL 33610

Reference: LAKELAND Work Order No: **24014**
DPW- Ft. Bragg
Project Location: [redacted] - Ft. Bragg, NC
Project Ref No:
Lab Quote No:

Dear ENVIRON International Corp. :

The attached Analytical and QC Summaries list the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Lakeland Laboratories Work Order numbered **24014.**

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies and QA/QC procedures. Lakeland Laboratories is limited in liability to the actual cost of the pertinent analysis done. Your samples will be retained by Lakeland Laboratories for a period of 30 days following receipt of the samples. After that time, they will be properly disposed of without further notice, unless there is a pre-arranged contractual arrangement. We reserve the right to return any unused samples, extracts or related solutions to you, if we consider it necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Lakeland Laboratories. This report will be filed for at least 3 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you.

We thank you for selecting Lakeland Laboratories Incorporated to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Sincerely,

James M. Crawford
Quality Assurance Officer

1910 Harden Boulevard, Suite 101
Lakeland, Florida 33803-1829
Phone: (863) 686-4271
Fax: (863) 686-4389

LAKELAND LABORATORIES

Certificate of Analysis Summary 24014

ENVIRON International Corp., Tampa, FL

Project Name: DPW- Ft. Bragg

Project Id:

Contact: ENVIRON International Corp.

Project Location: [redacted]- Ft. Bragg, NC

Date Received in Lab: Tue Nov-09-10 02:30 pm

Report Date: 17-NOV-10

Project Manager: Mark A. Alessandroni, PE

Analysis Requested													
	Lab Id:	24014-001		24014-002		24014-003		24014-004		24014-005		24014-006	
	Field Id:	110510-4-1a		110510-4-2a		110510-4-3a		110510-4-4a		110510-4-5a		110510-4-6a	
	Depth:												
	Matrix:	SOLID/SOLID		SOLID/SOLID		SOLID/SOLID		SOLID/SOLID		SOLID/SOLID		SOLID/SOLID	
	Sampled:	Nov-05-10 00:00		Nov-05-10 00:00		Nov-05-10 00:00		Nov-05-10 00:00		Nov-05-10 00:00		Nov-05-10 00:00	
Elemental Sulfur by HPLC	*Extracted:*	Nov-14-10 17:00		Nov-14-10 17:00		Nov-14-10 17:00		Nov-14-10 17:00		Nov-14-10 17:00		Nov-14-10 17:00	
	Analyzed:	Nov-15-10 23:01		Nov-15-10 23:23		Nov-15-10 23:44		Nov-16-10 00:05		Nov-16-10 00:27		Nov-16-10 00:48	
	Units/RL:	mg/kg	PQL	mg/kg	PQL	mg/kg	PQL	mg/kg	PQL	mg/kg	PQL	mg/kg	PQL
Sulfur, mol (S8)		U	2.00	U	2.00	U	2.00	U	2.00	U	2.00	U	2.00

LAKELAND LABORATORIES

Certificate of Analysis Summary 24014

ENVIRON International Corp., Tampa, FL

Project Name: DPW- Ft. Bragg

Project Id:

Contact: ENVIRON International Corp.

Project Location: [redacted] Ft. Bragg, NC

Date Received in Lab: Tue Nov-09-10 02:30 pm

Report Date: 17-NOV-10

Project Manager: Mark A. Alessandroni, PE

Analysis Requested									
	Lab Id:	24014-007		24014-008		24014-009		24014-010			
	Field Id:	110510-4-7a		110510-4-8a		110510-4-9a		110510-4-10a			
	Depth:										
	Matrix:	SOLID/SOLID		SOLID/SOLID		SOLID/SOLID		SOLID/SOLID			
	Sampled:	Nov-05-10 00:00		Nov-05-10 00:00		Nov-05-10 00:00		Nov-05-10 00:00			
Elemental Sulfur by HPLC	*Extracted:*	Nov-14-10 17:00		Nov-14-10 17:00		Nov-14-10 17:00		Nov-14-10 17:00			
	Analyzed:	Nov-16-10 01:09		Nov-16-10 01:52		Nov-16-10 03:17		Nov-16-10 03:38			
	Units/RL:	mg/kg	PQL	mg/kg	PQL	mg/kg	PQL	mg/kg	PQL		
Sulfur, mol (S8)		U	2.00	U	2.00	U	2.00	U	2.00		

LAKELAND LABORATORIES

Certificate of Analysis #: 24014

ENVIRON International Corp., Tampa, FL

DPW- Ft. Bragg

Sample Id: **110510-4-1a** Matrix: **SOLID/SOLID** Date Received: **Nov-09-10 14:30**
Lab Sample Id: **24014-001** Date Collected: **Nov-05-10 00:00** % Moisture: **0.000**
Sample Depth: Basis: **Wet**

Analytical Method: Elemental Sulfur by HPLC Prep Method: LL-SULF-P
Date Analyzed: Nov-15-10 23:01 Analyst: GARGAR Date Prep: Nov-14-10 17:00 Tech: TRAWIL
Seq Number: 71562

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Sulfur, mol (S8) +	10544-50-0	U	2.00	1.00	mg/kg	U	1

Sample Id: **110510-4-2a** Matrix: **SOLID/SOLID** Date Received: **Nov-09-10 14:30**
Lab Sample Id: **24014-002** Date Collected: **Nov-05-10 00:00** % Moisture: **0.000**
Sample Depth: Basis: **Wet**

Analytical Method: Elemental Sulfur by HPLC Prep Method: LL-SULF-P
Date Analyzed: Nov-15-10 23:23 Analyst: GARGAR Date Prep: Nov-14-10 17:00 Tech: TRAWIL
Seq Number: 71562

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Sulfur, mol (S8) +	10544-50-0	U	2.00	1.00	mg/kg	U	1

Sample Id: **110510-4-3a** Matrix: **SOLID/SOLID** Date Received: **Nov-09-10 14:30**
Lab Sample Id: **24014-003** Date Collected: **Nov-05-10 00:00** % Moisture: **0.000**
Sample Depth: Basis: **Wet**

Analytical Method: Elemental Sulfur by HPLC Prep Method: LL-SULF-P
Date Analyzed: Nov-15-10 23:44 Analyst: GARGAR Date Prep: Nov-14-10 17:00 Tech: TRAWIL
Seq Number: 71562

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Sulfur, mol (S8) +	10544-50-0	U	2.00	1.00	mg/kg	U	1

Sample Id: **110510-4-4a** Matrix: **SOLID/SOLID** Date Received: **Nov-09-10 14:30**
Lab Sample Id: **24014-004** Date Collected: **Nov-05-10 00:00** % Moisture: **0.000**
Sample Depth: Basis: **Wet**

Analytical Method: Elemental Sulfur by HPLC Prep Method: LL-SULF-P
Date Analyzed: Nov-16-10 00:05 Analyst: GARGAR Date Prep: Nov-14-10 17:00 Tech: TRAWIL
Seq Number: 71562

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Sulfur, mol (S8) +	10544-50-0	U	2.00	1.00	mg/kg	U	1

*

Results of liquid samples are reported on a wet-weight basis unless otherwise indicated. Results of solid samples are reported on a dry-weight basis unless otherwise indicated.

LAKELAND LABORATORIES

Certificate of Analysis #: 24014

ENVIRON International Corp., Tampa, FL

DPW- Ft. Bragg

Sample Id: **110510-4-5a** Matrix: **SOLID/SOLID** Date Received: **Nov-09-10 14:30**
Lab Sample Id: **24014-005** Date Collected: **Nov-05-10 00:00** % Moisture: **0.000**
Sample Depth: Basis: **Wet**

Analytical Method: Elemental Sulfur by HPLC Prep Method: LL-SULF-P
Date Analyzed: Nov-16-10 00:27 Analyst: GARGAR Date Prep: Nov-14-10 17:00 Tech: TRAWIL
Seq Number: 71562

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Sulfur, mol (S8) +	10544-50-0	U	2.00	1.00	mg/kg	U	1

Sample Id: **110510-4-6a** Matrix: **SOLID/SOLID** Date Received: **Nov-09-10 14:30**
Lab Sample Id: **24014-006** Date Collected: **Nov-05-10 00:00** % Moisture: **0.000**
Sample Depth: Basis: **Wet**

Analytical Method: Elemental Sulfur by HPLC Prep Method: LL-SULF-P
Date Analyzed: Nov-16-10 00:48 Analyst: GARGAR Date Prep: Nov-14-10 17:00 Tech: TRAWIL
Seq Number: 71562

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Sulfur, mol (S8) +	10544-50-0	U	2.00	1.00	mg/kg	U	1

Sample Id: **110510-4-7a** Matrix: **SOLID/SOLID** Date Received: **Nov-09-10 14:30**
Lab Sample Id: **24014-007** Date Collected: **Nov-05-10 00:00** % Moisture: **0.000**
Sample Depth: Basis: **Wet**

Analytical Method: Elemental Sulfur by HPLC Prep Method: LL-SULF-P
Date Analyzed: Nov-16-10 01:09 Analyst: GARGAR Date Prep: Nov-14-10 17:00 Tech: TRAWIL
Seq Number: 71562

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Sulfur, mol (S8) +	10544-50-0	U	2.00	1.00	mg/kg	U	1

Sample Id: **110510-4-8a** Matrix: **SOLID/SOLID** Date Received: **Nov-09-10 14:30**
Lab Sample Id: **24014-008** Date Collected: **Nov-05-10 00:00** % Moisture: **0.000**
Sample Depth: Basis: **Wet**

Analytical Method: Elemental Sulfur by HPLC Prep Method: LL-SULF-P
Date Analyzed: Nov-16-10 01:52 Analyst: GARGAR Date Prep: Nov-14-10 17:00 Tech: TRAWIL
Seq Number: 71562

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Sulfur, mol (S8) +	10544-50-0	U	2.00	1.00	mg/kg	U	1

*

Results of liquid samples are reported on a wet-weight basis unless otherwise indicated. Results of solid samples are reported on a dry-weight basis unless otherwise indicated.

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Certificate of Analysis #: 24014

ENVIRON International Corp., Tampa, FL

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Sample Id: **110510-4-9a** Matrix: **SOLID/SOLID** Date Received: **Nov-09-10 14:30**
Lab Sample Id: **24014-009** Date Collected: **Nov-05-10 00:00** % Moisture: **0.000**
Sample Depth: Basis: **Wet**

Analytical Method: Elemental Sulfur by HPLC Prep Method: LL-SULF-P
Date Analyzed: Nov-16-10 03:17 Analyst: GARGAR Date Prep: Nov-14-10 17:00 Tech: TRAWIL
Seq Number: 71562

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Sulfur, mol (S8) +	10544-50-0	U	2.00	1.00	mg/kg	U	1

Sample Id: **110510-4-10a** Matrix: **SOLID/SOLID** Date Received: **Nov-09-10 14:30**
Lab Sample Id: **24014-010** Date Collected: **Nov-05-10 00:00** % Moisture: **0.000**
Sample Depth: Basis: **Wet**

Analytical Method: Elemental Sulfur by HPLC Prep Method: LL-SULF-P
Date Analyzed: Nov-16-10 03:38 Analyst: GARGAR Date Prep: Nov-14-10 17:00 Tech: TRAWIL
Seq Number: 71562

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Sulfur, mol (S8) +	10544-50-0	U	2.00	1.00	mg/kg	U	1

Sample Id: **14525-105-W1 D** Matrix: **SOLID/SOLID** Date Received: **Nov-09-10 14:30**
Lab Sample Id: **24005-001 D** Date Collected: **Nov-02-10 00:00** % Moisture: **0.000**
Sample Depth: Basis: **Wet**

Analytical Method: Elemental Sulfur by HPLC Prep Method: LL-SULF-P
Date Analyzed: Nov-15-10 16:17 Analyst: GARGAR Date Prep: Nov-14-10 17:00 Tech: TRAWIL
Seq Number: 71562

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Sulfur, mol (S8) +	10544-50-0	U	2.00	1.00	mg/kg		1

Sample Id: **14525-105-W1 S** Matrix: **SOLID/SOLID** Date Received: **Nov-09-10 14:30**
Lab Sample Id: **24005-001 S** Date Collected: **Nov-02-10 00:00** % Moisture: **0.000**
Sample Depth: Basis: **Wet**

Analytical Method: Elemental Sulfur by HPLC Prep Method: LL-SULF-P
Date Analyzed: Nov-15-10 16:38 Analyst: GARGAR Date Prep: Nov-14-10 17:00 Tech: TRAWIL
Seq Number: 71562

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Sulfur, mol (S8) +	10544-50-0	83	2.00	1.00	%		1

*

Results of liquid samples are reported on a wet-weight basis unless otherwise indicated. Results of solid samples are reported on a dry-weight basis unless otherwise indicated.

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Certificate of Analysis #: 24014

ENVIRON International Corp., Tampa, FL

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Sample Id: **14525-105-W1 SD** Matrix: **SOLID/SOLID** Date Received: **Nov-09-10 14:30**
Lab Sample Id: **24005-001 SD** Date Collected: **Nov-02-10 00:00** % Moisture: **0.000**
Sample Depth: Basis: **Wet**

Analytical Method: Elemental Sulfur by HPLC Prep Method: LL-SULF-P
Date Analyzed: Nov-15-10 18:03 Analyst: GARGAR Date Prep: Nov-14-10 17:00 Tech: TRAWIL
Seq Number: 71562

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Sulfur, mol (S8) +	10544-50-0	85	2.00	1.00	%		1

Sample Id: **110510-4-8a D** Matrix: **SOLID/SOLID** Date Received: **Nov-09-10 14:30**
Lab Sample Id: **24014-008 D** Date Collected: **Nov-05-10 00:00** % Moisture: **0.000**
Sample Depth: Basis: **Wet**

Analytical Method: Elemental Sulfur by HPLC Prep Method: LL-SULF-P
Date Analyzed: Nov-16-10 02:13 Analyst: GARGAR Date Prep: Nov-14-10 17:00 Tech: TRAWIL
Seq Number: 71562

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Sulfur, mol (S8) +	10544-50-0	U	2.00	1.00	mg/kg		1

Sample Id: **110510-4-8a S** Matrix: **SOLID/SOLID** Date Received: **Nov-09-10 14:30**
Lab Sample Id: **24014-008 S** Date Collected: **Nov-05-10 00:00** % Moisture: **0.000**
Sample Depth: Basis: **Wet**

Analytical Method: Elemental Sulfur by HPLC Prep Method: LL-SULF-P
Date Analyzed: Nov-16-10 02:34 Analyst: GARGAR Date Prep: Nov-14-10 17:00 Tech: TRAWIL
Seq Number: 71562

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Sulfur, mol (S8) +	10544-50-0	83	2.00	1.00	%		1

Sample Id: **110510-4-8a SD** Matrix: **SOLID/SOLID** Date Received: **Nov-09-10 14:30**
Lab Sample Id: **24014-008 SD** Date Collected: **Nov-05-10 00:00** % Moisture: **0.000**
Sample Depth: Basis: **Wet**

Analytical Method: Elemental Sulfur by HPLC Prep Method: LL-SULF-P
Date Analyzed: Nov-16-10 02:55 Analyst: GARGAR Date Prep: Nov-14-10 17:00 Tech: TRAWIL
Seq Number: 71562

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Sulfur, mol (S8) +	10544-50-0	83	2.00	1.00	%		1

*

Results of liquid samples are reported on a wet-weight basis unless otherwise indicated. Results of solid samples are reported on a dry-weight basis unless otherwise indicated.

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Certificate of Analysis #: 24014

ENVIRON International Corp., Tampa, FL

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Sample Id: **29724-1-BKS**	Matrix: **SOLID**	Date Received:
Lab Sample Id: **29724-1-BKS**	Date Collected:	% Moisture:
Sample Depth:		Basis: **Wet**

Analytical Method: Elemental Sulfur by HPLC Prep Method: LL-SULF-P

Date Analyzed: Nov-15-10 15:34 Analyst: GARGAR Date Prep: Nov-14-10 17:00 Tech: TRAWIL

Seq Number: 71562

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Sulfur, mol (S8) +	10544-50-0	90	2.00	1.00	%		1

Sample Id: **29724-1-BLK**	Matrix: **SOLID**	Date Received:
Lab Sample Id: **29724-1-BLK**	Date Collected:	% Moisture:
Sample Depth:		Basis: **Wet**

Analytical Method: Elemental Sulfur by HPLC Prep Method: LL-SULF-P

Date Analyzed: Nov-15-10 15:13 Analyst: GARGAR Date Prep: Nov-14-10 17:00 Tech: TRAWIL

Seq Number: 71562

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Sulfur, mol (S8) +	10544-50-0	U	2.00	1.00	mg/kg	U	1

*

Results of liquid samples are reported on a wet-weight basis unless otherwise indicated. Results of solid samples are reported on a dry-weight basis unless otherwise indicated.

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Quality Control Sample Legend

Lakeland Labs Quality Control Sample Legend

This analytical report may include results for various quality assurance/quality control (QA/QC) samples prepared and analyzed as required within various sample preparation and analytical batches. In-house sample identification is based on the Lakeland Labs Work Order No. followed by the Work Order Item No. For example, the second item on Work Order No. 10000 would be assigned Lab Sample ID 10000-002. The QA/QC sample identifications are affixed with suffixes to differentiate them from the actual sample results. For QA/QC samples generated in-house such as method blanks, blank spikes, blank spike duplicates, etc., the preparation or analytical batch number is used instead of the Work Order No. To assist the data reviewer, the following legend provides information on the various QA/QC samples and the suffixes used to denote them:

- BLK Method Blank. A method blank, also known as a laboratory control blank (LCB), is a sample of a matrix similar to the batch of associated samples (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences are present at concentrations that impact the analytical results for sample analyses.

- BKS Blank Spike. A blank spike, also known as a calibration verification or laboratory control sample (LCS), is a sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes. It is generally used to establish intra-laboratory or analyst-specific precision and bias (accuracy) or to assess the performance of all or a portion of the measurement system. Successful analysis of the blank spike sample demonstrates an analytical system's ability to accurately measure target analyte concentrations.

- BSD Blank Spike Duplicate. A blank spike duplicate, also known as a laboratory control sample duplicate (LCSD), is a second blank spike sample, often bracketing a group of samples within a batch. Successful analysis of the blank spike duplicate sample demonstrates not only an analytical system's continuing ability to accurately measure target analyte concentrations, but also, when compared with the blank spike results, the system's precision.

- S Matrix Spike (MS). A matrix spike is a sample prepared by adding a known mass of target analyte(s) to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. Matrix spikes are used, for example, to determine the effect of the matrix on a method's recovery efficiency.

- SD Matrix Spike Duplicate (MSD). A matrix spike duplicate is a second replicate matrix spike prepared in the laboratory and analyzed to obtain a measure of the precision of the recovery for each analyte.

- D Matrix Duplicate (MD). A matrix duplicate is a second replicate matrix prepared in the laboratory and analyzed to obtain a measure of precision.

- MRL Method Reporting Limit. A method reporting limit standard is an analyte-free matrix similar to the sample matrices spiked with one or more of the target analytes at a concentration equal to or less than the method reporting limit (also known as the practical quantitation limit or PQL). Successful analysis of the MRL standard demonstrates the analytical system's ability to identify the spiked analytes of interest at the MRL/PQL.

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Flagging Criteria

FLORIDA Flagging Criteria

Data were reviewed by the Department Supervisor and QA Director

A Value reported is the mean (average) of two or more determinations. This code shall be used if the reported value is the average of results for two or more discrete and separate samples. These samples shall have been processed and analyzed independently. Do not use this code if the data are the result of replicate analysis on the same sample aliquot, extract or digestate.

B Results based upon colony counts outside the acceptable range. This code applies to microbiological tests and specifically to membrane filter colony counts. The code is to be used if the colony count is generated from a plate in which the total number of coliform colonies is outside the method indicated ideal range. This code is not to be used if a 100 mL sample has been filtered and the colony count is less than the lower value of the ideal range.

J Estimated value. A "J" value shall be accompanied by a narrative justification for its use. Where possible, the organization shall report whether the actual value is less than or greater than the reported value. A "J" value shall not be used as a substitute for K, L, M, T, V, or Y, however, if additional reasons exist for identifying the value as estimate (e.g., matrix spiked failed to meet acceptance criteria), the "J" code may be added to a K, L, M, T, V, or Y. The following are some examples of narrative descriptions that may accompany a "J" code: .

J1: No known quality control criteria exist for the component;

J2: The reported value failed to meet the established quality control criteria for

either precision or accuracy (the specific failure must be identified);

J3: The sample matrix interfered with the ability to make any accurate determination;

J4: The data are questionable because of improper laboratory or field protocols

Q Sample held beyond the accepted holding time. This code shall be used if the value is derived from a sample that was prepared or analyzed after the approved holding time restrictions for sample preparation or analysis.

T Value reported is less than the laboratory method detection limit. The value is reported for informational purposes, only and shall not be used in statistical analysis.

U Indicates that the compound was analyzed for but not detected. This symbolshall be used to indicate that the specified component was not detected. The value associated with the qualifier shall be the laboratory method detection limit. Unless requested by the client, less than the method detection limit values shall not be reported (see "T" above).

V Indicates that the analyte was detected in both the sample and the associated method blank. Note: the value in the blank shall not be subtracted from associated samples.

Y The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

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Flagging Criteria

FLORIDA Flagging Criteria

*	Not analyzed due to interference
R	Significant rain in the past 48 hours. (Significant rain typically involves rain in excess of 1/2 inch within the past 48 hours.) This code shall be used when the rainfall might contribute to a lower than normal value.
I	Data deviate from historically established concentration ranges.
+	Analyte falls outside current scope of NELAP accreditation.
X	In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
D	The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
F	When reporting species: F indicates the female sex. Otherwise it indicates RPD value is outside the acceptable range.
L	Off-scale high. Actual value is known to be greater than value given. To be used when the concentration of the analyte is above the acceptable level for quantitation (exceeds the linear range or highest calibration standard) and the calibration curve is known to exhibit a negative deflection.
H	Value based on field kit determination; results may not be accurate. This code shall be used if a field screening test (i.e., field gas chromatograph data, immunoassay, vendor-supplied field kit, etc.) was used to generate the value and the field kit or method has not been recognized by the Department as equivalent to laboratory methods.

LAKELAND LABORATORIES

Sample Duplicate Recovery

Project Name: DPW- Ft. Bragg

Work Order #: 24014 **Report Date:** 17-NOV-10

Lab Batch #: 71562 **Project ID:**
Date Analyzed: 11/15/2010 **Date Prepared:** 11/14/2010 **Analyst:** GARGAR
QC- Sample ID: 24005-001 D **Batch #:** 1 **Matrix:** Solid
Reporting Units: mg/kg

Elemental Sulfur by HPLC	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Sulfur, mol (S8)	<1.00	<1.00	NC	30	

Lab Batch #: 71562
Date Analyzed: 11/16/2010 **Date Prepared:** 11/14/2010 **Analyst:** GARGAR
QC- Sample ID: 24014-008 D **Batch #:** 1 **Matrix:** Solid
Reporting Units: mg/kg

Elemental Sulfur by HPLC	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Sulfur, mol (S8)	<1.00	<1.00	NC	30	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

LAKELAND LABORATORIES

Form 3 - MS / MSD Recoveries

Project Name: DPW- Ft. Bragg

Report Date: 17-NOV-10

Work Order # : 24014 **Project ID:**

Lab Batch ID: 71562 **QC- Sample ID:** 24005-001 S **Batch #:** 1 **Matrix:** Solid/Solid

Date Analyzed: 11/15/2010 **Date Prepared:** 11/14/2010 **Analyst:** GARGAR

Reporting Units: mg/kg

Elemental Sulfur by HPLC	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Sulfur, mol (S8)	<1.00	167	138	83	167	142	85	3	70-130	30	

Lab Batch ID: 71562 **QC- Sample ID:** 24014-008 S **Batch #:** 1 **Matrix:** Solid/Solid

Date Analyzed: 11/16/2010 **Date Prepared:** 11/14/2010 **Analyst:** GARGAR

Reporting Units: mg/kg

Elemental Sulfur by HPLC	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Sulfur, mol (S8)	<1.00	167	138	83	167	139	83	1	70-130	30	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(C-F)/(C+F)

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

LAKELAND LABORATORIES

Blank Spike Recovery

Project Name: DPW- Ft. Bragg

Report Date: 17-NOV-10

Work Order #: 24014

Project ID:

Lab Batch #: 71562 | Sample: 29724-1-BKS | Matrix: Solid

Date Analyzed: 11/15/2010 | Date Prepared: 11/14/2010 | Analyst: GARGAR

Reporting Units: mg/kg | Batch #: 1

Elemental Sulfur by HPLC Analytes	Blank Result [A]	BLANK /BLANK SPIKE RECOVERY STUDY Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Sulfur, mol (S8)	<1.00	167	150	90	70-130	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

ENVIRON L.L. #24014

Chain of Custody

Page 1 of 2

ENVIRON International Corporation
10150 Highlands Manor Drive, Ste 440
Tampa, FL 33610
Tel: 813-628-4325 FAX: 813.628.4983

Project name: DPW - Ft. Bragg
Site Address [redacted], Ft. Bragg, NC
Site Owner:
Phase # 2

Date: 11/9/2010

Sample ID	Date Collected	Time Collected	Description	Medium	Analysis Requested
110510-4-1a	11/5/2010	NA	drywall sample, living room stairwell wall	Solid	
110510-4-2a			drywall sample, hallway opp. garage		
110510-4-3a			drywall sample, family room opp. 1st floor bath		
110510-4-4a			drywall sample, kitchen opp. garage utility room		
110510-4-5a			drywall sample, stairwell		
110510-4-6a			drywall sample, 2nd floor rear spare bedroom (partition wall between bedrooms)		
110510-4-7a			drywall sample, 2nd floor middle spare bedroom (partition wall between bedroom & bathroom)		

Shipped to:
Address: Lakeland Lab
1910 Harden Blvd.
Suite 101
Lakeland, FL 33803

Shipment Method: Courier Date: 11/9/2010
Tracking number: n/a
Preservation: n/a

Collected by: Name and Date: originally collected by J. Poole - see original COC
Signature:

Comments:

Relinquished by: Name: Mary McKenzie
Signature: Mary McKenzie Date: 11/9/2010
Time: 1430

Received by: Name: W GRIGLOFF
Signature: Date: 11-9-10
Time: 1430

Relinquished by: Name:
Signature: Date:
Time:

Received by: Name:
Signature: Date:
Time:

Relinquished by: Name:
Signature: Date:
Time:

Received by: Name:
Signature: Date:
Time:

ENVIRON

L.L#24014

Chain of Custody

Page 2 of 2

ENVIRON International Corporation
10150 Highlands Manor Drive, Ste 440
Tampa, FL 33610
Tel: 813-628-4325
FAX: 813.628.4983

Project name: DPW - Ft. Bragg
Site Address: [redacted], Ft. Bragg, NC
Site Owner:
Phase #: 2

Date: 11/9/2010

Sample ID	Date Collected	Time Collected	Description	Medium	Analysis Requested
110510-4-8a	11/5/2010	NA	drywall sample, 2nd floor front spare bedroom (partition wall between bedrooms)	Solid	Elemental S
110510-4-9a	11/5/2010	↓	drywall sample, master bedroom wall opp. closet	↓	↓
110510-4-10a	11/5/2010	↓	drywall sample, 2nd floor hallway adj. to laundry room	↓	↓
↓	↓	↓			

Shipped to:

Address: Lakeland Lab
1910 Harden Blvd.
Suite 101
Lakeland, FL 33803

Shipment Method: Courier
Date: 11/9/2010

Tracking number: n/a

Preservation: n/a

Collected by: Name and Date: originally collected by J. Poole - see original COC
Signature:

Comments:

Relinquished by: Name: Mary McKenzie
Signature: Mary McKenzie Date: 11/9/2010
Time: 1430

Received by: Name: W Griggs
Signature: Date: 11-9-10
Time: 1430

Relinquished by: Name:
Signature: Date:
Time:

Received by: Name:
Signature: Date:
Time:

Relinquished by: Name:
Signature: Date:
Time:

Received by: Name:
Signature: Date:
Time:

ENVIRON

January 19, 2011

[redacted]
Chief, Environmental Compliance Branch
Directorate of Public Works
Bldg. 3-1137, Butner Road
Fort Bragg, North Carolina 28310

Via email: [redacted]@us.army.mil

RE: [redacted] Fort Bragg, North Carolina 28307

Dear [redacted]

Pursuant to your request, ENVIRON has evaluated this home to determine whether there is evidence in the home of effects from defective gypsum wallboard. ENVIRON's evaluation included:

- the measurement of indoor and outdoor air using a calibrated direct-reading hydrogen sulfide analyzer
- the collection of indoor and outdoor ambient air samples for subsequent laboratory analysis
- examination of the air handler of the HVAC system, copper portions of plumbing and electrical components, including receptacles, switches and exposed copper wiring
- opening walls to inspect for labeling or manufacturing marks on wallboard
- collection of wallboard samples for analysis of elemental sulfur

On December 7, 2010, ENVIRON collected and submitted three wallboard samples to Lakeland Labs, LLC for analysis of elemental sulfur content. Elemental sulfur is a particular form of sulfur present at elevated levels in defective wallboard that produces corrosive sulfide gases. Analyzed samples were collected from the south bedroom closet (120710-11VS-1a), the master closet (120710-11VS-2a), and the kitchen (120710-11VS-3a). The laboratory did not detect elemental sulfur in any of the samples, as shown in the attached report. None of these samples have the chemical composition associated with defective wallboard.

On December 8, 2010, ENVIRON collected indoor and outdoor ambient air samples for subsequent laboratory analysis (Sample 120810-11VS-10 from the kitchen; Sample 120810-11VS-11 from the master bedroom; and Samples 120810-11VS-12 and 120810-11VS-13 from outdoors). ENVIRON delivered the air samples to Lakeland Labs, LLC, an independent accredited laboratory, which tested the air samples for the presence and concentration of 20 sulfur-containing compounds using American Society for Testing and Materials (ASTM) Method D-5504. As you can see from the attached laboratory results, Lakeland Labs, LLC did not report measureable levels of any of the 20 sulfur compounds. In addition, the calibrated direct-reading hydrogen sulfide analyzer detected no indoor concentrations of hydrogen sulfide above the levels detected outside of the home.

ENVIRON also inspected copper components associated with plumbing, as well as electrical components for discoloration and residue characteristic of corrosion from exposure to defective gypsum wallboard. No black surface accumulations were observed.

ENVIRON cut openings in walls to observe the unpainted side of wallboard for labeling or markings indicative of Chinese-manufactured wallboard. No markings associated with Chinese-manufactured wallboard were found. We did not detect odors characteristic of defective Chinese-manufactured wallboard in the home or while opening walls.

Based on these observations, ENVIRON concludes that there is no evidence of effects from defective wallboard in the subject home. Also, we did not find indications suggesting that the wallboard was manufactured in China. If you have any questions or concerns regarding our evaluation, please do not hesitate to contact us.

Sincerely,

Robert P. DeMott, PhD, DABT
Principal Toxicologist

James L. Poole, PhD, CIH
Principal Industrial Hygienist

Enclosure: Attachment 1, Laboratory Results

ATTACHMENT 1
[redacted] STREET
LABORATORY RESULTS

LAKELAND LABORATORIES

1910 Harden Boulevard
Suite 101
Lakeland, FL 33803
(863) 686-4271 Phone
(863) 686-4389 Fax

16 December 2010

ENVIRON International Corp.
ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

RE: Fort Bragg -

Project Location: [redacted] - Fort Bragg, NC 28307

Dear ENVIRON International Corp.:

The attached Analytical and QC Summaries list the analytical results from the analyses performed on the samples received on **13-Dec-10 10:16** under the project name referenced above.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies and QA/QC procedures. Lakeland Laboratories is limited in liability to the actual cost of the pertinent analysis done. Your samples will be retained by Lakeland Laboratories for a period of 30 days following receipt of the samples. After that time, they will be properly disposed of without further notice, unless there is a pre-arranged contractual arrangement. We reserve the right to return any unused samples, extracts or related solutions to you, if we consider it necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Lakeland Laboratories. This report will be filed for at least 3 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you.

We thank you for selecting Lakeland Laboratories Incorporated to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Sincerely,

Technical Director
Jim Crawford For Mark Alessandroni

LAKELAND LABORATORIES

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(863) 686-4389 Fax

ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted] - Fort Bragg, NC 28307
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 13:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
120710-11VS-1a	1012138-01	Drywall	07-Dec-10 00:00	13-Dec-10 10:16
120710-11VS-2a	1012138-02	Drywall	07-Dec-10 00:00	13-Dec-10 10:16
120710-11VS-3a	1012138-03	Drywall	07-Dec-10 00:00	13-Dec-10 10:16

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted]- Fort Bragg, NC 28307
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 13:41

120710-11VS-1a
1012138-01 (Drywall)

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Elemental Sulfur by HPLC									Batch: B012018
Elemental Sulfur	U	2.00	1.00	mg/kg	1	13-Dec-10	15-Dec-10	LL-SULFUR	

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted] - Fort Bragg, NC 28307
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 13:41

120710-11VS-2a

1012138-02 (Drywall)

Analyte	Result	PQL	MDL	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Lakeland Laboratories, LLC									
Elemental Sulfur by HPLC									Batch: B012018
Elemental Sulfur	U	2.00	1.00	mg/kg	1	13-Dec-10	15-Dec-10	LL-SULFUR	

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted] Fort Bragg, NC 28307
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 13:41

120710-11VS-3a
1012138-03 (Drywall)

Analyte	Result	PQL	MDL	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Lakeland Laboratories, LLC									
Elemental Sulfur by HPLC									Batch: B012018
Elemental Sulfur	U	2.00	1.00	mg/kg	1	13-Dec-10	15-Dec-10	LL-SULFUR	

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ENVIRON International Corp.
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Tampa, FL 33610

Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted] - Fort Bragg, NC 28307
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 13:41

Elemental Sulfur by HPLC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012018 - Prep Method: NO PREP											
Blank (B012018-BLK1)				Prepared: 13-Dec-10 Analyzed: 14-Dec-10							
Elemental Sulfur	U	2.00	1.00	mg/kg							
LCS (B012018-BS1)				Prepared: 13-Dec-10 Analyzed: 14-Dec-10							
Elemental Sulfur	134	2.00	1.00	mg/kg	167		80	70-130			
Duplicate (B012018-DUP1)		Source: 1012128-01		Prepared: 13-Dec-10 Analyzed: 14-Dec-10							
Elemental Sulfur	U	2.00	1.00	mg/kg		U				30	
Duplicate (B012018-DUP2)		Source: 1012136-02		Prepared: 13-Dec-10 Analyzed: 15-Dec-10							
Elemental Sulfur	U	2.00	1.00	mg/kg		U				30	
Duplicate (B012018-DUP3)		Source: 1012142-02		Prepared: 13-Dec-10 Analyzed: 15-Dec-10							
Elemental Sulfur	U	2.00	1.00	mg/kg		U				30	
Matrix Spike (B012018-MS1)		Source: 1012128-02		Prepared: 13-Dec-10 Analyzed: 14-Dec-10							
Elemental Sulfur	130	2.00	1.00	mg/kg	167	U	78	70-130			
Matrix Spike (B012018-MS2)		Source: 1012136-03		Prepared: 13-Dec-10 Analyzed: 15-Dec-10							
Elemental Sulfur	133	2.00	1.00	mg/kg	167	U	80	70-130			
Matrix Spike (B012018-MS3)		Source: 1012142-03		Prepared: 13-Dec-10 Analyzed: 15-Dec-10							
Elemental Sulfur	152	2.00	1.00	mg/kg	167	U	91	70-130			
Matrix Spike Dup (B012018-MSD1)		Source: 1012128-02		Prepared: 13-Dec-10 Analyzed: 14-Dec-10							
Elemental Sulfur	133	2.00	1.00	mg/kg	167	U	80	70-130	2	30	
Matrix Spike Dup (B012018-MSD2)		Source: 1012136-03		Prepared: 13-Dec-10 Analyzed: 15-Dec-10							
Elemental Sulfur	137	2.00	1.00	mg/kg	167	U	82	70-130	3	30	

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Tampa, FL 33610

Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted] - Fort Bragg, NC 28307
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 13:41

Elemental Sulfur by HPLC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012018 - Prep Method: NO PREP											
Matrix Spike Dup (B012018-MSD3)	**Source: 1012142-03**			Prepared: 13-Dec-10 Analyzed: 15-Dec-10							
Elemental Sulfur	148	2.00	1.00	mg/kg	167	U	89	70-130	3	30	

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Tampa, FL 33610

Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted] - Fort Bragg, NC 28307
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 13:41

Notes and Definitions

DET	Analyte DETECTED
U	Analyte NOT DETECTED at or above the MDL
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
PQL	Practical Quantitation Limit

Results of liquid samples are reported on a wet-weight basis unless otherwise indicated. Results of solid samples are reported on a dry-weight basis unless otherwise indicated.

ENVIRON

Chain of Custody

Page 1 of 1

1012138

ENVIRON International Corporation
10150 Highlands Manor Drive, Ste 440
Tampa, FL 33610
Tel: 813-628-4325 FAX: 813.628.4983

Project name: Fort Bragg ([redacted])
Site Address [redacted] St. Fort Bragg, NC 28307
Site Owner:
Phase # 2

Date: ~~12.07.10~~ 12.10.10

Sample ID	Date Collected	Time Collected	Description	Medium	Analysis Requested
120710-11VS-1a	12.07.10		drywall samples - south bedroom closet - east wall	Solid	elemental S
120710-11VS-2a	↓		drywall samples - master closet - west wall	↓	elemental S
120710-11VS-3a	↓		drywall samples - west wall - lower upper sheet	↓	elemental S

Shipped to: Lakeland Labs
Address: 1910 Harden Blvd Suite 101, Lakeland, FL 33803

Shipment Method: pick-up
Tracking number:
Preservation:

Date:

Collected by: Name and Date: James L. Poole ~~Jan~~ 12.07.10
Signature: (see original COC)

Comments: sub sampled for testing

Relinquished by: Name: Cindy Lyons
Signature: [signature] Date: 12-13-10 Time: 10:16

Received by: Name: W GANGLOFF
Signature: [signature] Date: 12-13-10 Time: 10:16

Relinquished by: Name:
Signature: Date: Time:

Received by: Name:
Signature: Date: Time:

Relinquished by: Name:
Signature: Date: Time:

Received by: Name:
Signature: Date: Time:

LAKELAND
LABORATORIES

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12 December 2010

ENVIRON International Corp.
ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

RE: Fort Bragg - 8 Homes
Project Location: [redacted]

Dear ENVIRON International Corp.:

This report details the analytical results of samples collected at the above-referenced project location as well as the results of any associated quality control samples. These samples were taken into custody by Lakeland Laboratories at **09-Dec-10 08:10.**

The work detailed herein has been conducted in accordance with generally accepted professional standards using recognized testing methodologies and quality control measures. It must be noted that the results detailed within this final report apply only to those samples submitted for analysis and reported here. When the NELAP logo is affixed to this report, these test results meet all requirements of the National Environmental Laboratory Accreditation Conference (NELAC).

Your samples will be retained by Lakeland Laboratories for a period of at least 30 days following sample receipt or until the longest of the preparation and/or analytical hold times expires, whichever is shorter. After that time, they will be properly disposed without further notice, unless there exists an explicit contractual agreement to the contrary. We reserve the right to return any unused samples, extracts, or related materials or solutions to you if we consider it necessary. Examples might include those samples identified as hazardous wastes, submissions where the sample sizes significantly exceed those required for analysis, samples containing controlled substances, etc.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full. We will maintain a copy of this report, electronic or otherwise, in our files for at least five years, after which time it may be destroyed without further notice, unless there exists an explicit contractual agreement to the contrary.

We thank you for selecting Lakeland Laboratories to serve your analytical needs. Should you have any questions or require additional information regarding any of the information in this report, please feel free to contact us at any time. We appreciate the opportunity to be of service.

Sincerely,

Technical Director
Mark Alessandroni

LAKELAND LABORATORIES

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(863) 686-4271 Phone
(863) 686-4389 Fax

ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:56

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
120810-11VS-10	1012096-01	Air	08-Dec-10 15:00	09-Dec-10 08:10
120810-11VS-11	1012096-02	Air	08-Dec-10 15:05	09-Dec-10 08:10
120810-11VS-12	1012096-03	Air	08-Dec-10 15:10	09-Dec-10 08:10
120810-11VS-13	1012096-04	Air	08-Dec-10 15:15	09-Dec-10 08:10

Comments on Sample Receipt:
Samples were delivered via overnight courier (Federal Express Airbill No. 8728 6310 3591) and received in the laboratory at 8:10 AM on December 9, 2010. The samples were analyzed the same day, within the mandated holding time of 24 hours. Unless noted elsewhere in the report, no deviations from the laboratory SOP were made.

Comments on Sample Analyses:
The analytical system exhibited a high bias for all but two compounds (carbonyl sulfide and carbon disulfide) in the matrix spike-matrix spike duplicate and the blank spike-blank spike duplicate QA pairs. All compounds met criteria in both QA pairs for relative percent difference (precision). Due to the short holding time for these samples and the logistical impracticability of recalibrating the system or re-analyzing these samples within the 24-hour hold time, results are reported here appropriately flagged. A high bias in the analytical system is indicative of increased sensitivity and elevated response for compounds that under normal circumstances might not exceed practical quantitation limits (PQLs). Because none of the target analytes exhibiting a high bias were detected in any of the samples above the PQL, impacts to data validity are not expected to be significant. A method reporting limit (MRL) standard was run at the end of the analytical sequence, confirming sensitivity of the analytical system.

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ENVIRON International Corp.
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Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:56

120810-11VS-10
1012096-01 (Air)

Prepared: 09-Dec-10 09:00
Analyzed: 09-Dec-10 13:47

Lakeland Laboratories, LLC

Reduced Sulfur Compounds in Air by GC — Batch: B012012

Analyte	Result	PQL	Units	Dilution	Method	Qualifiers
Hydrogen sulfide	U	5.00	ppbv	1	D5504-08	
Carbonyl Sulfide	U	5.00	ppbv	1	D5504-08	
Methyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Dimethyl Sulfide	U	5.00	ppbv	1	D5504-08	
Carbon Disulfide	U	5.00	ppbv	1	D5504-08	
Isopropyl Mercaptan	U	5.00	ppbv	1	D5504-08	
tert-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Propyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Methyl Sulfide	U	5.00	ppbv	1	D5504-08	
Thiophene	U	5.00	ppbv	1	D5504-08	
Isobutyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Diethyl Sulfide	U	5.00	ppbv	1	D5504-08	
3-Methyl Thiophene	U	5.00	ppbv	1	D5504-08	
Tetrahydrothiophene	U	5.00	ppbv	1	D5504-08	
Dimethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2-Ethyl Thiophene	U	5.00	ppbv	1	D5504-08	
Diethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2,5-Dimethyl Thiophene	U	5.00	ppbv	1	D5504-08	

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:56

120810-11VS-11
1012096-02 (Air)

Prepared: 09-Dec-10 09:00
Analyzed: 09-Dec-10 13:58

Lakeland Laboratories, LLC

Reduced Sulfur Compounds in Air by GC — Batch: B012012

Analyte	Result	PQL	Units	Dilution	Method	Qualifiers
Hydrogen sulfide	U	5.00	ppbv	1	D5504-08	
Carbonyl Sulfide	U	5.00	ppbv	1	D5504-08	
Methyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Dimethyl Sulfide	U	5.00	ppbv	1	D5504-08	
Carbon Disulfide	U	5.00	ppbv	1	D5504-08	
Isopropyl Mercaptan	U	5.00	ppbv	1	D5504-08	
tert-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Propyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Methyl Sulfide	U	5.00	ppbv	1	D5504-08	
Thiophene	U	5.00	ppbv	1	D5504-08	
Isobutyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Diethyl Sulfide	U	5.00	ppbv	1	D5504-08	
3-Methyl Thiophene	U	5.00	ppbv	1	D5504-08	
Tetrahydrothiophene	U	5.00	ppbv	1	D5504-08	
Dimethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2-Ethyl Thiophene	U	5.00	ppbv	1	D5504-08	
Diethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2,5-Dimethyl Thiophene	U	5.00	ppbv	1	D5504-08	

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:56

120810-11VS-12
1012096-03 (Air)

Prepared: 09-Dec-10 09:00
Analyzed: 09-Dec-10 14:09

Lakeland Laboratories, LLC

Reduced Sulfur Compounds in Air by GC Batch: B012012

Analyte	Result	PQL	Units	Dilution	Method	Qualifiers
Hydrogen sulfide	U	5.00	ppbv	1	D5504-08	
Carbonyl Sulfide	U	5.00	ppbv	1	D5504-08	
Methyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Dimethyl Sulfide	U	5.00	ppbv	1	D5504-08	
Carbon Disulfide	U	5.00	ppbv	1	D5504-08	
Isopropyl Mercaptan	U	5.00	ppbv	1	D5504-08	
tert-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Propyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Methyl Sulfide	U	5.00	ppbv	1	D5504-08	
Thiophene	U	5.00	ppbv	1	D5504-08	
Isobutyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Diethyl Sulfide	U	5.00	ppbv	1	D5504-08	
3-Methyl Thiophene	U	5.00	ppbv	1	D5504-08	
Tetrahydrothiophene	U	5.00	ppbv	1	D5504-08	
Dimethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2-Ethyl Thiophene	U	5.00	ppbv	1	D5504-08	
Diethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2,5-Dimethyl Thiophene	U	5.00	ppbv	1	D5504-08	

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:56

120810-11VS-13
1012096-04 (Air)

Prepared: 09-Dec-10 09:00
Analyzed: 09-Dec-10 14:20

Lakeland Laboratories, LLC

Reduced Sulfur Compounds in Air by GC Batch: B012012

Analyte	Result	PQL	Units	Dilution	Method	Qualifiers
Hydrogen sulfide	U	5.00	ppbv	1	D5504-08	
Carbonyl Sulfide	U	5.00	ppbv	1	D5504-08	
Methyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Dimethyl Sulfide	U	5.00	ppbv	1	D5504-08	
Carbon Disulfide	U	5.00	ppbv	1	D5504-08	
Isopropyl Mercaptan	U	5.00	ppbv	1	D5504-08	
tert-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Propyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Methyl Sulfide	U	5.00	ppbv	1	D5504-08	
Thiophene	U	5.00	ppbv	1	D5504-08	
Isobutyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Diethyl Sulfide	U	5.00	ppbv	1	D5504-08	
3-Methyl Thiophene	U	5.00	ppbv	1	D5504-08	
Tetrahydrothiophene	U	5.00	ppbv	1	D5504-08	
Dimethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2-Ethyl Thiophene	U	5.00	ppbv	1	D5504-08	
Diethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2,5-Dimethyl Thiophene	U	5.00	ppbv	1	D5504-08	

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(863) 686-4389 Fax

ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:56

Reduced Sulfur Compounds in Air by GC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012012 - Prep Method: None										
Blank (B012012-BLK1)		**Prepared: 09-Dec-10 06:30**			**Analyzed: 09-Dec-10 06:49**					
Hydrogen sulfide	U	5.00	ppbv							
Carbonyl Sulfide	U	5.00	ppbv							
Methyl Mercaptan	U	5.00	ppbv							
Ethyl Mercaptan	U	5.00	ppbv							
Dimethyl Sulfide	U	5.00	ppbv							
Carbon Disulfide	U	5.00	ppbv							
Isopropyl Mercaptan	U	5.00	ppbv							
tert-Butyl Mercaptan	U	5.00	ppbv							
n-Propyl Mercaptan	U	5.00	ppbv							
Ethyl Methyl Sulfide	U	5.00	ppbv							
Thiophene	U	5.00	ppbv							
Isobutyl Mercaptan	U	5.00	ppbv							
n-Butyl Mercaptan	U	5.00	ppbv							
Diethyl Sulfide	U	5.00	ppbv							
3-Methyl Thiophene	U	5.00	ppbv							
Tetrahydrothiophene	U	5.00	ppbv							
Dimethyl Disulfide	U	5.00	ppbv							
2-Ethyl Thiophene	U	5.00	ppbv							
Diethyl Disulfide	U	5.00	ppbv							
2,5-Dimethyl Thiophene	U	5.00	ppbv							
LCS (B012012-BS1)		**Prepared: 09-Dec-10 06:30**			**Analyzed: 09-Dec-10 07:00**					
Hydrogen sulfide	31.7	5.00	ppbv	25.0		127	63-128 %			
Carbonyl Sulfide	32.6	5.00	ppbv	25.0		130	78-195 %			
Methyl Mercaptan	29.8	5.00	ppbv	25.0		119	58-131 %			
Ethyl Mercaptan	29.9	5.00	ppbv	25.0		120	52-138 %			
Dimethyl Sulfide	30.3	5.00	ppbv	25.0		121	75-118 %			J
Carbon Disulfide	28.4	5.00	ppbv	25.0		114	71-186 %			

LAKELAND LABORATORIES

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:56

Reduced Sulfur Compounds in Air by GC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012012 - Prep Method: None										
LCS (B012012-BS1)		**Prepared: 09-Dec-10 06:30**			**Analyzed: 09-Dec-10 07:00**					
Isopropyl Mercaptan	29.5	5.00	ppbv	25.0		118	66-117 %			J
tert-Butyl Mercaptan	29.1	5.00	ppbv	25.0		116	52-138 %			
n-Propyl Mercaptan	28.1	5.00	ppbv	25.0		113	61-128 %			
Ethyl Methyl Sulfide	29.2	5.00	ppbv	25.0		117	70-123 %			
Thiophene	28.5	5.00	ppbv	25.0		114	69-123 %			
Isobutyl Mercaptan	29.6	5.00	ppbv	25.0		118	57-127 %			
n-Butyl Mercaptan	29.3	5.00	ppbv	25.0		117	74-124 %			
Diethyl Sulfide	30.2	5.00	ppbv	25.0		121	63-116 %			J
3-Methyl Thiophene	28.7	5.00	ppbv	25.0		115	72-121 %			
Tetrahydrothiophene	29.7	5.00	ppbv	25.0		119	60-128 %			
Dimethyl Disulfide	29.6	5.00	ppbv	25.0		118	67-124 %			
2-Ethyl Thiophene	30.4	5.00	ppbv	25.0		122	63-131 %			
Diethyl Disulfide	28.9	5.00	ppbv	25.0		116	57-135 %			
2,5-Dimethyl Thiophene	29.9	5.00	ppbv	25.0		120	58-136 %			
LCS Dup (B012012-BSD1)		**Prepared: 09-Dec-10 06:30**			**Analyzed: 09-Dec-10 11:22**					
Hydrogen sulfide	36.6	5.00	ppbv	25.0		147	63-128 %	14	30	J
Carbonyl Sulfide	37.8	5.00	ppbv	25.0		151	78-195 %	15	30	
Methyl Mercaptan	35.6	5.00	ppbv	25.0		142	58-131 %	18	30	J
Ethyl Mercaptan	36.0	5.00	ppbv	25.0		144	52-138 %	18	30	J
Dimethyl Sulfide	35.8	5.00	ppbv	25.0		143	75-118 %	16	30	J
Carbon Disulfide	35.5	5.00	ppbv	25.0		142	71-186 %	22	30	
Isopropyl Mercaptan	36.5	5.00	ppbv	25.0		146	66-117 %	21	30	J
tert-Butyl Mercaptan	36.6	5.00	ppbv	25.0		147	52-138 %	23	30	J
n-Propyl Mercaptan	35.3	5.00	ppbv	25.0		141	61-128 %	23	30	J
Ethyl Methyl Sulfide	36.8	5.00	ppbv	25.0		147	70-123 %	23	30	J
Thiophene	34.6	5.00	ppbv	25.0		138	69-123 %	19	30	J
Isobutyl Mercaptan	37.2	5.00	ppbv	25.0		149	57-127 %	23	30	J

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Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:56

Reduced Sulfur Compounds in Air by GC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012012 - Prep Method: None										
LCS Dup (B012012-BSD1)		**Prepared:**	**09-Dec-10 06:30**	**Analyzed:**	**09-Dec-10 11:22**					
n-Butyl Mercaptan	36.5	5.00	ppbv	25.0		146	74-124 %	22	30	J
Diethyl Sulfide	36.3	5.00	ppbv	25.0		145	63-116 %	18	30	J
3-Methyl Thiophene	35.4	5.00	ppbv	25.0		142	72-121 %	21	30	J
Tetrahydrothiophene	34.7	5.00	ppbv	25.0		139	60-128 %	15	30	J
Dimethyl Disulfide	36.0	5.00	ppbv	25.0		144	67-124 %	20	30	J
2-Ethyl Thiophene	35.9	5.00	ppbv	25.0		144	63-131 %	17	30	J
Diethyl Disulfide	34.3	5.00	ppbv	25.0		137	57-135 %	17	30	J
2,5-Dimethyl Thiophene	34.1	5.00	ppbv	25.0		136	58-136 %	13	30	
Duplicate (B012012-DUP1)	**Source: 1012089-01**	**Prepared:**	**09-Dec-10 06:30**	**Analyzed:**	**09-Dec-10 07:28**					
Hydrogen sulfide	U	5.00	ppbv		U				30	
Carbonyl Sulfide	U	5.00	ppbv		U				30	
Methyl Mercaptan	U	5.00	ppbv		U				30	
Ethyl Mercaptan	U	5.00	ppbv		U				30	
Dimethyl Sulfide	U	5.00	ppbv		U				30	
Carbon Disulfide	U	5.00	ppbv		U				30	
Isopropyl Mercaptan	U	5.00	ppbv		U				30	
tert-Butyl Mercaptan	U	5.00	ppbv		U				30	
n-Propyl Mercaptan	U	5.00	ppbv		U				30	
Ethyl Methyl Sulfide	U	5.00	ppbv		U				30	
Thiophene	U	5.00	ppbv		U				30	
Isobutyl Mercaptan	U	5.00	ppbv		U				30	
n-Butyl Mercaptan	U	5.00	ppbv		U				30	
Diethyl Sulfide	U	5.00	ppbv		U				30	
3-Methyl Thiophene	U	5.00	ppbv		U				30	
Tetrahydrothiophene	U	5.00	ppbv		U				30	
Dimethyl Disulfide	U	5.00	ppbv		U				30	
2-Ethyl Thiophene	U	5.00	ppbv		U				30	

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:56

Reduced Sulfur Compounds in Air by GC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012012 - Prep Method: None										
Duplicate (B012012-DUP1)	**Source: 1012089-01**		**Prepared: 09-Dec-10 06:30**				**Analyzed: 09-Dec-10 07:28**			
Diethyl Disulfide	U	5.00	ppbv		U				30	
2,5-Dimethyl Thiophene	U	5.00	ppbv		U				30	
Matrix Spike (B012012-MS1)	**Source: 1012089-01**		**Prepared: 09-Dec-10 06:30**				**Analyzed: 09-Dec-10 07:39**			
Hydrogen sulfide	35.2	5.00	ppbv	25.0	U	141	63-128 %			J
Carbonyl Sulfide	35.5	5.00	ppbv	25.0	U	142	78-195 %			
Methyl Mercaptan	32.7	5.00	ppbv	25.0	U	131	58-131 %			
Ethyl Mercaptan	32.9	5.00	ppbv	25.0	U	131	52-138 %			
Dimethyl Sulfide	32.6	5.00	ppbv	25.0	U	131	75-118 %			J
Carbon Disulfide	36.4	5.00	ppbv	25.0	U	146	71-186 %			
Isopropyl Mercaptan	32.4	5.00	ppbv	25.0	U	130	66-117 %			J
tert-Butyl Mercaptan	33.4	5.00	ppbv	25.0	U	134	52-138 %			
n-Propyl Mercaptan	34.5	5.00	ppbv	25.0	U	138	61-128 %			J
Ethyl Methyl Sulfide	31.7	5.00	ppbv	25.0	U	127	70-123 %			J
Thiophene	31.4	5.00	ppbv	25.0	U	126	69-123 %			J
Isobutyl Mercaptan	33.7	5.00	ppbv	25.0	U	135	57-127 %			J
n-Butyl Mercaptan	32.7	5.00	ppbv	25.0	U	131	74-124 %			J
Diethyl Sulfide	33.1	5.00	ppbv	25.0	U	132	63-116 %			J
3-Methyl Thiophene	31.6	5.00	ppbv	25.0	U	126	72-121 %			J
Tetrahydrothiophene	31.0	5.00	ppbv	25.0	U	124	60-128 %			
Dimethyl Disulfide	32.1	5.00	ppbv	25.0	U	128	67-124 %			J
2-Ethyl Thiophene	32.8	5.00	ppbv	25.0	U	131	63-131 %			
Diethyl Disulfide	30.7	5.00	ppbv	25.0	U	123	57-135 %			
2,5-Dimethyl Thiophene	32.8	5.00	ppbv	25.0	U	131	58-136 %			
Matrix Spike Dup (B012012-MSD1)	**Source: 1012089-01**		**Prepared: 09-Dec-10 06:30**				**Analyzed: 09-Dec-10 07:55**			
Hydrogen sulfide	33.8	5.00	ppbv	25.0	U	135	63-128 %	4	30	J
Carbonyl Sulfide	36.5	5.00	ppbv	25.0	U	146	78-195 %	3	30	

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Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:56

Reduced Sulfur Compounds in Air by GC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012012 - Prep Method: None										
Matrix Spike Dup (B012012-MSD1)	**Source: 1012089-01**	**Prepared:**	**09-Dec-10 06:30**	**Analyzed:**	**09-Dec-10 07:55**					
Methyl Mercaptan	32.6	5.00	ppbv	25.0	U	130	58-131 %	0.5	30	
Ethyl Mercaptan	32.8	5.00	ppbv	25.0	U	131	52-138 %	0.3	30	
Dimethyl Sulfide	32.8	5.00	ppbv	25.0	U	131	75-118 %	0.5	30	J
Carbon Disulfide	35.8	5.00	ppbv	25.0	U	143	71-186 %	2	30	
Isopropyl Mercaptan	32.4	5.00	ppbv	25.0	U	130	66-117 %	0.02	30	J
tert-Butyl Mercaptan	33.1	5.00	ppbv	25.0	U	132	52-138 %	0.8	30	
n-Propyl Mercaptan	32.8	5.00	ppbv	25.0	U	131	61-128 %	5	30	J
Ethyl Methyl Sulfide	31.3	5.00	ppbv	25.0	U	125	70-123 %	1	30	J
Thiophene	31.2	5.00	ppbv	25.0	U	125	69-123 %	0.6	30	J
Isobutyl Mercaptan	31.9	5.00	ppbv	25.0	U	128	57-127 %	5	30	J
n-Butyl Mercaptan	31.5	5.00	ppbv	25.0	U	126	74-124 %	4	30	J
Diethyl Sulfide	31.6	5.00	ppbv	25.0	U	126	63-116 %	5	30	J
3-Methyl Thiophene	31.4	5.00	ppbv	25.0	U	126	72-121 %	0.5	30	J
Tetrahydrothiophene	31.0	5.00	ppbv	25.0	U	124	60-128 %	0.08	30	
Dimethyl Disulfide	32.0	5.00	ppbv	25.0	U	128	67-124 %	0.2	30	J
2-Ethyl Thiophene	31.6	5.00	ppbv	25.0	U	126	63-131 %	4	30	
Diethyl Disulfide	31.5	5.00	ppbv	25.0	U	126	57-135 %	3	30	
2,5-Dimethyl Thiophene	30.7	5.00	ppbv	25.0	U	123	58-136 %	6	30	

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ENVIRON International Corp.
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Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:56

Notes and Definitions

J	Estimated Value
DET	Analyte DETECTED
U	Analyte NOT DETECTED at or above the MDL
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
PQL	Practical Quantitation Limit

Results of liquid samples are reported on a wet-weight basis unless otherwise indicated. Results of solid samples are reported on a dry-weight basis unless otherwise indicated.

LAKELAND LABORATORIES, LLC
1910 HARDEN BOULEVARD, SUITE 101
LAKELAND, FLORIDA 33803-1829
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Work Order # 1012096

Chain of Custody Record

Company: ENVIRON International Corp.	Project Name: Fort Bragg - 8 Homes	Page 1 of 1
Address: 10150 Highland Manor Drive, Suite 440, Tampa, FL 33610	Project #:	DEP Form #: 62-770.900(2)
	Project Manager: James L. Poole, PhD, CIH	Form Title: Chain of Custody Record
	Project Location: [redacted]	Effective Date: September 23, 1997
Phone: (813) 628-4325 Fax: (813) 628-4983	P. O. #:	FDEP Facility No.:
Sampled by [Print Name(s)] / Affiliation: Nita Stamm; James L. Poole, PhD, CIH/ENVIRON	Preservatives (see codes)	Project Name:
Sampler(s) Signature(s)	Analyses Requested	REQUESTED DUE DATE / /

Item No.	Field ID No.	Sampled Date	Sampled Time	Grab or Composite	Matrix (see codes)	Number of Containers	ASTM D5504-08	Remarks	Lab. No.
1	120810-LLS-10	12/08/2010	1500	G	A	1	X	kitchen	001
2	120810-LLS-11		1505	G	A	1	X	master bedroom	002
3	120810-LLS-12		1510	G	A	1	X	outdoor front	003
4	120810-LLS-13	↓	1515	G	A	1	X	outdoor rear	004

Shipment Method

<= Total Number of Containers

		Item No.	Relinquished by / Affiliation	Date	Time	Accepted by / Affiliation	Date	Time
Out: / /	Via:	1-4	/ENVIRON	12/08/2010	1500	8728 6310 3591 /LL	12-8-10	1800
Returned: / /	Via:	1-4	8728 6310 3591	12-9-10	0810		12/9/10	0810
Additional Comments:								

Cooler No.(s) / Temperature(s) (°C)	Sampling Kit No.	Equipment ID No.
Ambient °C		

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) O = Other (specify)

PRESERVATIVE CODES: H = Hydrochloric acid + ice I = Ice only N = Nitric acid + ice S = Sulfuric acid + ice O = Other (specify)

ENVIRON

4

January 19, 2011

[redacted]
Chief, Environmental Compliance Branch
Directorate of Public Works
Bldg. 3-1137, Butner Road
Fort Bragg, North Carolina 28310

Via email: [redacted]@us.army.mil

RE: [redacted], Fort Bragg, North Carolina 28307

Dear [redacted]

Pursuant to your request, ENVIRON has evaluated this home to determine whether there is evidence in the home of effects from defective gypsum wallboard. ENVIRON's evaluation included:

- the measurement of indoor and outdoor air using a calibrated direct-reading hydrogen sulfide analyzer
- the collection of indoor and outdoor ambient air samples for subsequent laboratory analysis
- examination of the air handler of the HVAC system, copper portions of plumbing and electrical components, including receptacles, switches and exposed copper wiring
- opening walls to inspect for labeling or manufacturing marks on wallboard
- collection of wallboard samples for analysis of elemental sulfur

On December 7, 2010, ENVIRON collected and submitted four wallboard samples to Lakeland Labs, LLC for analysis of elemental sulfur content. Elemental sulfur is a particular form of sulfur present at elevated levels in defective wallboard that produces corrosive sulfide gases. Analyzed samples were collected from the front right bedroom closet (120710-21VW-1a), the rear spare bedroom (120710-21VW-2a), the stairway closet (120710-21VW-3a), and the first floor linen closet (120710-21VW-4a). The laboratory did not detect elemental sulfur in any of the samples, as shown in the attached report. None of these samples have the chemical composition associated with defective wallboard.

On December 8, 2010, ENVIRON collected indoor and outdoor ambient air samples for subsequent laboratory analysis (Sample 120810-21VW-10 from the kitchen; Sample 120810-21VW-11 from the master bedroom; and Samples 120810-21VW-12 and 120810-21VW-13 from outdoors). ENVIRON delivered the air samples to Lakeland Labs, LLC, an independent accredited laboratory, which tested the air samples for the presence and concentration of 20 sulfur-containing compounds using American Society for Testing and Materials (ASTM) Method D-5504. As you can see from the attached laboratory results, Lakeland Labs, LLC did not report measureable levels of any of the 20 sulfur compounds. However, the calibrated direct-reading hydrogen sulfide analyzer detected hydrogen sulfide

at 5 parts per billion by volume (ppbv) in the first floor hall, the second floor hall, the master bedroom, and the west bedroom. These concentrations of hydrogen sulfide are below the 20 ppbv level established for long-term residential exposures by the U.S. Department of Health and Human Services, Agency for Toxic Substances and Disease Registry (ATSDR). In addition, during the hydrogen sulfide testing, we observed a heavy odor of cigarette smoke. Cigarette smoking in the home could have resulted in the low reading obtained. Hydrogen sulfide readings in the other five rooms were similar to levels detected outside of the home.

ENVIRON also inspected copper components associated with the HVAC system and plumbing, as well as electrical components for discoloration and residue characteristic of corrosion from exposure to defective gypsum wallboard. No black surface accumulations were observed.

ENVIRON cut openings in walls to observe the unpainted side of wallboard for labeling or markings indicative of Chinese-manufactured wallboard. No markings associated with Chinese-manufactured wallboard were found. We did not detect odors characteristic of defective Chinese-manufactured wallboard in the home or while opening walls.

Based on these observations, ENVIRON concludes that there is no evidence of effects from defective wallboard in the subject home. Also, we did not find indications suggesting that the wallboard was manufactured in China. If you have any questions or concerns regarding our evaluation, please do not hesitate to contact us.

Sincerely,

Robert P. DeMott, PhD, DABT
Principal Toxicologist

James L. Poole, PhD, CIH
Principal Industrial Hygienist

Enclosure: Attachment 1, Laboratory Results

ATTACHMENT 1

[redacted]

LABORATORY RESULTS

LAKELAND
LABORATORIES

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16 December 2010

ENVIRON International Corp.
ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

RE: Fort Bragg -
Project Location: [redacted] Fort Bragg, NC 28307

Dear ENVIRON International Corp.:

This report details the analytical results of samples collected at the above-referenced project location as well as the results of any associated quality control samples. These samples were taken into custody by Lakeland Laboratories at **13-Dec-10 10:16.**

The work detailed herein has been conducted in accordance with generally accepted professional standards using recognized testing methodologies and quality control measures. It must be noted that the results detailed within this final report apply only to those samples submitted for analysis and reported here. When the NELAP logo is affixed to this report, these test results meet all requirements of the National Environmental Laboratory Accreditation Conference (NELAC).

Your samples will be retained by Lakeland Laboratories for a period of at least 30 days following sample receipt or until the longest of the preparation and/or analytical hold times expires, whichever is shorter. After that time, they will be properly disposed without further notice, unless there exists an explicit contractual agreement to the contrary. We reserve the right to return any unused samples, extracts, or related materials or solutions to you if we consider it necessary. Examples might include those samples identified as hazardous wastes, submissions where the sample sizes significantly exceed those required for analysis, samples containing controlled substances, etc.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full. We will maintain a copy of this report, electronic or otherwise, in our files for at least five years, after which time it may be destroyed without further notice, unless there exists an explicit contractual agreement to the contrary.

We thank you for selecting Lakeland Laboratories to serve your analytical needs. Should you have any questions or require additional information regarding any of the information in this report, please feel free to contact us at any time. We appreciate the opportunity to be of service.

Sincerely,

Technical Director
Jim Crawford For Mark Alessandroni

LAKELAND LABORATORIES

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted] Fort Bragg, NC 28307
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 13:44

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
120710-21VW-1a	1012139-01	Drywall	07-Dec-10 00:00	13-Dec-10 10:16
120710-21VW-2a	1012139-02	Drywall	07-Dec-10 00:00	13-Dec-10 10:16
120710-21VW-3a	1012139-03	Drywall	07-Dec-10 00:00	13-Dec-10 10:16
120710-21VW-4a	1012139-04	Drywall	07-Dec-10 00:00	13-Dec-10 10:16

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Tampa, FL 33610

Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted] - Fort Bragg, NC 28307
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 13:44

120710-21VW-1a
1012139-01 (Drywall)

Prepared: 13-Dec-10 10:26
Analyzed: 15-Dec-10 04:35

Analyte	Result	PQL	MDL	Units	Dilution	Method	Qualifiers
Lakeland Laboratories, LLC							
Elemental Sulfur by HPLC							Batch: B012018
Elemental Sulfur	U	2.00	1.00	mg/kg	1	LL-SULFUR	

LAKELAND LABORATORIES

1910 Harden Boulevard
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(863) 686-4389 Fax

ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted]- Fort Bragg, NC 28307
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 13:44

120710-21VW-2a
1012139-02 (Drywall)

Prepared: 13-Dec-10 10:26
Analyzed: 15-Dec-10 04:56

Analyte	Result	PQL	MDL	Units	Dilution	Method	Qualifiers
Lakeland Laboratories, LLC							
Elemental Sulfur by HPLC							Batch: B012018
Elemental Sulfur	U	2.00	1.00	mg/kg	1	LL-SULFUR	

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Tampa, FL 33610

Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted] Fort Bragg, NC 28307
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 13:44

120710-21VW-3a
1012139-03 (Drywall)

Prepared: 13-Dec-10 10:26
Analyzed: 15-Dec-10 05:18

Analyte	Result	PQL	MDL	Units	Dilution	Method	Qualifiers
Lakeland Laboratories, LLC							
Elemental Sulfur by HPLC							Batch: B012018
Elemental Sulfur	U	2.00	1.00	mg/kg	1	LL-SULFUR	

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Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted] - Fort Bragg, NC 28307
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 13:44

120710-21VW-4a
1012139-04 (Drywall)

Prepared: 13-Dec-10 10:26
Analyzed: 15-Dec-10 05:39

Analyte	Result	PQL	MDL	Units	Dilution	Method	Qualifiers
Lakeland Laboratories, LLC							
Elemental Sulfur by HPLC							Batch: B012018
Elemental Sulfur	U	2.00	1.00	mg/kg	1	LL-SULFUR	

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Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted] - Fort Bragg, NC 28307
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 13:44

Elemental Sulfur by HPLC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012018 - Prep Method: NO PREP											
Blank (B012018-BLK1)			**Prepared: 13-Dec-10 10:26**			**Analyzed: 14-Dec-10 16:52**					
Elemental Sulfur	U	2.00	1.00	mg/kg							
LCS (B012018-BS1)			**Prepared: 13-Dec-10 10:26**			**Analyzed: 14-Dec-10 17:14**					
Elemental Sulfur	134	2.00	1.00	mg/kg	167		80	70-130 %			
Duplicate (B012018-DUP1)	**Source: 1012128-01**		**Prepared: 13-Dec-10 10:26**			**Analyzed: 14-Dec-10 17:56**					
Elemental Sulfur	U	2.00	1.00	mg/kg		U				30	
Duplicate (B012018-DUP2)	**Source: 1012136-02**		**Prepared: 13-Dec-10 10:26**			**Analyzed: 15-Dec-10 00:41**					
Elemental Sulfur	U	2.00	1.00	mg/kg		U				30	
Duplicate (B012018-DUP3)	**Source: 1012142-02**		**Prepared: 13-Dec-10 10:26**			**Analyzed: 15-Dec-10 12:42**					
Elemental Sulfur	U	2.00	1.00	mg/kg		U				30	
Matrix Spike (B012018-MS1)	**Source: 1012128-02**		**Prepared: 13-Dec-10 10:26**			**Analyzed: 14-Dec-10 19:00**					
Elemental Sulfur	130	2.00	1.00	mg/kg	167	U	78	70-130 %			
Matrix Spike (B012018-MS2)	**Source: 1012136-03**		**Prepared: 13-Dec-10 10:26**			**Analyzed: 15-Dec-10 01:23**					
Elemental Sulfur	133	2.00	1.00	mg/kg	167	U	80	70-130 %			
Matrix Spike (B012018-MS3)	**Source: 1012142-03**		**Prepared: 13-Dec-10 10:26**			**Analyzed: 15-Dec-10 13:46**					
Elemental Sulfur	152	2.00	1.00	mg/kg	167	U	91	70-130 %			
Matrix Spike Dup (B012018-MSD1)	**Source: 1012128-02**		**Prepared: 13-Dec-10 10:26**			**Analyzed: 14-Dec-10 19:21**					
Elemental Sulfur	133	2.00	1.00	mg/kg	167	U	80	70-130 %	2	30	
Matrix Spike Dup (B012018-MSD2)	**Source: 1012136-03**		**Prepared: 13-Dec-10 10:26**			**Analyzed: 15-Dec-10 01:45**					
Elemental Sulfur	137	2.00	1.00	mg/kg	167	U	82	70-130 %	3	30	

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Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted] Fort Bragg, NC 28307
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 13:44

Elemental Sulfur by HPLC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012018 - Prep Method: NO PREP											
Matrix Spike Dup (B012018-MSD3)	**Source: 1012142-03**		**Prepared: 13-Dec-10 10:26**			**Analyzed: 15-Dec-10 14:07**					
Elemental Sulfur	148	2.00	1.00	mg/kg	167	U	89	70-130 %	3	30	

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Tampa, FL 33610

Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted] Fort Bragg, NC 28307
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 13:44

Notes and Definitions

DET	Analyte DETECTED
U	Analyte NOT DETECTED at or above the MDL
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
PQL	Practical Quantitation Limit

Results of liquid samples are reported on a wet-weight basis unless otherwise indicated. Results of solid samples are reported on a dry-weight basis unless otherwise indicated.

ENVIRON #1012139

Chain of Custody

Page 1 of 1

ENVIRON International Corporation
10150 Highlands Manor Drive, Ste 440
Tampa, FL 33610
Tel: 813-628-4325 FAX: 813.628.4983

Project name: Fort Bragg ([redacted])
Site Address [redacted] Fort Bragg, NC 28307
Site Owner:
Phase # 2

Date: ~~12.10.10~~ 12.10.10

Sample ID	Date Collected	Time Collected	Description	Medium	Analysis Requested
120710-21VW-1a	12.07.10		drywall Sample-Front Rt. bedroom closet (W. bedroom)	solid	elemental S
120710-21VW-2a	↓		drywall sample-rear spare bedroom closet (S-bedroom)	solid	elemental S
120710-21VW-3a	↓		drywall sample-stairway closet	solid	elemental S
120710-21VW-4a	↓		drywall sample-linen closet 1st floor	solid	elemental S

Shipped to: Lakeland Labs
Address: 1910 Harden Blvd Suite 101, Lakeland, FL 33803

Shipment Method: pick-Up
Tracking number:
Preservation:
Date:

Collected by: Name and Date: James L. Poole 12.07.10
Signature: (see original COC)

Comments: subsampled for testing

Relinquished by: Name: Cindy Lyons
Signature: [signature] Date: 12-13-10 Time: 10:16

Received by: Name: W GANGLOFF
Signature: [signature] Date: 12-13-10 Time: 10:16

Relinquished by: Name:
Signature: Date: Time:

Received by: Name:
Signature: Date: Time:

Relinquished by: Name:
Signature: Date: Time:

Received by: Name:
Signature: Date: Time:

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12 December 2010

ENVIRON International Corp.
ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

RE: Fort Bragg - 8 Homes
Project Location: [redacted]

Dear ENVIRON International Corp.:

This report details the analytical results of samples collected at the above-referenced project location as well as the results of any associated quality control samples. These samples were taken into custody by Lakeland Laboratories at **09-Dec-10 08:10.**

The work detailed herein has been conducted in accordance with generally accepted professional standards using recognized testing methodologies and quality control measures. It must be noted that the results detailed within this final report apply only to those samples submitted for analysis and reported here. When the NELAP logo is affixed to this report, these test results meet all requirements of the National Environmental Laboratory Accreditation Conference (NELAC).

Your samples will be retained by Lakeland Laboratories for a period of at least 30 days following sample receipt or until the longest of the preparation and/or analytical hold times expires, whichever is shorter. After that time, they will be properly disposed without further notice, unless there exists an explicit contractual agreement to the contrary. We reserve the right to return any unused samples, extracts, or related materials or solutions to you if we consider it necessary. Examples might include those samples identified as hazardous wastes, submissions where the sample sizes significantly exceed those required for analysis, samples containing controlled substances, etc.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full. We will maintain a copy of this report, electronic or otherwise, in our files for at least five years, after which time it may be destroyed without further notice, unless there exists an explicit contractual agreement to the contrary.

We thank you for selecting Lakeland Laboratories to serve your analytical needs. Should you have any questions or require additional information regarding any of the information in this report, please feel free to contact us at any time. We appreciate the opportunity to be of service.

Sincerely,

Technical Director
Mark Alessandroni

LAKELAND LABORATORIES

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:52

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
120810-21VW-10	1012094-01	Air	08-Dec-10 14:33	09-Dec-10 08:10
120810-21VW-11	1012094-02	Air	08-Dec-10 14:38	09-Dec-10 08:10
120810-21VW-12	1012094-03	Air	08-Dec-10 14:43	09-Dec-10 08:10
120810-21VW-13	1012094-04	Air	08-Dec-10 14:48	09-Dec-10 08:10

Comments on Sample Receipt:
Samples were delivered via overnight courier (Federal Express Airbill No. 8728 6310 3591) and received in the laboratory at 8:10 AM on December 9, 2010. The samples were analyzed the same day, within the mandated holding time of 24 hours. Unless noted elsewhere in the report, no deviations from the laboratory SOP were made.

Comments on Sample Analyses:
The analytical system exhibited a high bias for all but two compounds (carbonyl sulfide and carbon disulfide) in the matrix spike-matrix spike duplicate and the blank spike-blank spike duplicate QA pairs. All compounds met criteria in both QA pairs for relative percent difference (precision). Due to the short holding time for these samples and the logistical impracticability of recalibrating the system or re-analyzing these samples within the 24-hour hold time, results are reported here appropriately flagged. A high bias in the analytical system is indicative of increased sensitivity and elevated response for compounds that under normal circumstances might not exceed practical quantitation limits (PQLs). Because none of the target analytes exhibiting a high bias were detected in any of the samples above the PQL, impacts to data validity are not expected to be significant. A method reporting limit (MRL) standard was run at the end of the analytical sequence, confirming sensitivity of the analytical system.

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Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:52

120810-21VW-10
1012094-01 (Air)

Prepared: 09-Dec-10 09:00
Analyzed: 09-Dec-10 12:51

Lakeland Laboratories, LLC

Reduced Sulfur Compounds in Air by GC — Batch: B012012

Analyte	Result	PQL	Units	Dilution	Method	Qualifiers
Hydrogen sulfide	U	5.00	ppbv	1	D5504-08	
Carbonyl Sulfide	U	5.00	ppbv	1	D5504-08	
Methyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Dimethyl Sulfide	U	5.00	ppbv	1	D5504-08	
Carbon Disulfide	U	5.00	ppbv	1	D5504-08	
Isopropyl Mercaptan	U	5.00	ppbv	1	D5504-08	
tert-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Propyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Methyl Sulfide	U	5.00	ppbv	1	D5504-08	
Thiophene	U	5.00	ppbv	1	D5504-08	
Isobutyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Diethyl Sulfide	U	5.00	ppbv	1	D5504-08	
3-Methyl Thiophene	U	5.00	ppbv	1	D5504-08	
Tetrahydrothiophene	U	5.00	ppbv	1	D5504-08	
Dimethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2-Ethyl Thiophene	U	5.00	ppbv	1	D5504-08	
Diethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2,5-Dimethyl Thiophene	U	5.00	ppbv	1	D5504-08	

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Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:52

120810-21VW-11
1012094-02 (Air)

Prepared: 09-Dec-10 09:00
Analyzed: 09-Dec-10 13:02

Lakeland Laboratories, LLC

Reduced Sulfur Compounds in Air by GC Batch: B012012

Analyte	Result	PQL	Units	Dilution	Method	Qualifiers
Hydrogen sulfide	U	5.00	ppbv	1	D5504-08	
Carbonyl Sulfide	U	5.00	ppbv	1	D5504-08	
Methyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Dimethyl Sulfide	U	5.00	ppbv	1	D5504-08	
Carbon Disulfide	U	5.00	ppbv	1	D5504-08	
Isopropyl Mercaptan	U	5.00	ppbv	1	D5504-08	
tert-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Propyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Methyl Sulfide	U	5.00	ppbv	1	D5504-08	
Thiophene	U	5.00	ppbv	1	D5504-08	
Isobutyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Diethyl Sulfide	U	5.00	ppbv	1	D5504-08	
3-Methyl Thiophene	U	5.00	ppbv	1	D5504-08	
Tetrahydrothiophene	U	5.00	ppbv	1	D5504-08	
Dimethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2-Ethyl Thiophene	U	5.00	ppbv	1	D5504-08	
Diethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2,5-Dimethyl Thiophene	U	5.00	ppbv	1	D5504-08	

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Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:52

120810-21VW-12
1012094-03 (Air)

Prepared: 09-Dec-10 09:00
Analyzed: 09-Dec-10 13:13

Lakeland Laboratories, LLC

Reduced Sulfur Compounds in Air by GC — Batch: B012012

Analyte	Result	PQL	Units	Dilution	Method	Qualifiers
Hydrogen sulfide	U	5.00	ppbv	1	D5504-08	
Carbonyl Sulfide	U	5.00	ppbv	1	D5504-08	
Methyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Dimethyl Sulfide	U	5.00	ppbv	1	D5504-08	
Carbon Disulfide	U	5.00	ppbv	1	D5504-08	
Isopropyl Mercaptan	U	5.00	ppbv	1	D5504-08	
tert-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Propyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Methyl Sulfide	U	5.00	ppbv	1	D5504-08	
Thiophene	U	5.00	ppbv	1	D5504-08	
Isobutyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Diethyl Sulfide	U	5.00	ppbv	1	D5504-08	
3-Methyl Thiophene	U	5.00	ppbv	1	D5504-08	
Tetrahydrothiophene	U	5.00	ppbv	1	D5504-08	
Dimethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2-Ethyl Thiophene	U	5.00	ppbv	1	D5504-08	
Diethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2,5-Dimethyl Thiophene	U	5.00	ppbv	1	D5504-08	

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10150 Highland Manor Drive, Suite 440
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Project Name:Fort Bragg - 8 Homes
Project Number:[none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:52

120810-21VW-13
1012094-04 (Air)

Prepared: 09-Dec-10 09:00
Analyzed: 09-Dec-10 13:36

Lakeland Laboratories, LLC

Reduced Sulfur Compounds in Air by GC — Batch: B012012

Analyte	Result	PQL	Units	Dilution	Method	Qualifiers
Hydrogen sulfide	U	5.00	ppbv	1	D5504-08	
Carbonyl Sulfide	U	5.00	ppbv	1	D5504-08	
Methyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Dimethyl Sulfide	U	5.00	ppbv	1	D5504-08	
Carbon Disulfide	U	5.00	ppbv	1	D5504-08	
Isopropyl Mercaptan	U	5.00	ppbv	1	D5504-08	
tert-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Propyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Methyl Sulfide	U	5.00	ppbv	1	D5504-08	
Thiophene	U	5.00	ppbv	1	D5504-08	
Isobutyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Diethyl Sulfide	U	5.00	ppbv	1	D5504-08	
3-Methyl Thiophene	U	5.00	ppbv	1	D5504-08	
Tetrahydrothiophene	U	5.00	ppbv	1	D5504-08	
Dimethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2-Ethyl Thiophene	U	5.00	ppbv	1	D5504-08	
Diethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2,5-Dimethyl Thiophene	U	5.00	ppbv	1	D5504-08	

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Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:52

Reduced Sulfur Compounds in Air by GC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012012 - Prep Method: None										
Blank (B012012-BLK1)		**Prepared: 09-Dec-10 06:30**		**Analyzed: 09-Dec-10 06:49**						
Hydrogen sulfide	U	5.00	ppbv							
Carbonyl Sulfide	U	5.00	ppbv							
Methyl Mercaptan	U	5.00	ppbv							
Ethyl Mercaptan	U	5.00	ppbv							
Dimethyl Sulfide	U	5.00	ppbv							
Carbon Disulfide	U	5.00	ppbv							
Isopropyl Mercaptan	U	5.00	ppbv							
tert-Butyl Mercaptan	U	5.00	ppbv							
n-Propyl Mercaptan	U	5.00	ppbv							
Ethyl Methyl Sulfide	U	5.00	ppbv							
Thiophene	U	5.00	ppbv							
Isobutyl Mercaptan	U	5.00	ppbv							
n-Butyl Mercaptan	U	5.00	ppbv							
Diethyl Sulfide	U	5.00	ppbv							
3-Methyl Thiophene	U	5.00	ppbv							
Tetrahydrothiophene	U	5.00	ppbv							
Dimethyl Disulfide	U	5.00	ppbv							
2-Ethyl Thiophene	U	5.00	ppbv							
Diethyl Disulfide	U	5.00	ppbv							
2,5-Dimethyl Thiophene	U	5.00	ppbv							
LCS (B012012-BS1)		**Prepared: 09-Dec-10 06:30**		**Analyzed: 09-Dec-10 07:00**						
Hydrogen sulfide	31.7	5.00	ppbv	25.0		127	63-128 %			
Carbonyl Sulfide	32.6	5.00	ppbv	25.0		130	78-195 %			
Methyl Mercaptan	29.8	5.00	ppbv	25.0		119	58-131 %			
Ethyl Mercaptan	29.9	5.00	ppbv	25.0		120	52-138 %			
Dimethyl Sulfide	30.3	5.00	ppbv	25.0		121	75-118 %			J
Carbon Disulfide	28.4	5.00	ppbv	25.0		114	71-186 %			

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ENVIRON International Corp.
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Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:52

Reduced Sulfur Compounds in Air by GC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012012 - Prep Method: None										
LCS (B012012-BS1)			**Prepared:**	**09-Dec-10 06:30**		**Analyzed:**	**09-Dec-10 07:00**			
Isopropyl Mercaptan	29.5	5.00	ppbv	25.0		118	66-117 %			J
tert-Butyl Mercaptan	29.1	5.00	ppbv	25.0		116	52-138 %			
n-Propyl Mercaptan	28.1	5.00	ppbv	25.0		113	61-128 %			
Ethyl Methyl Sulfide	29.2	5.00	ppbv	25.0		117	70-123 %			
Thiophene	28.5	5.00	ppbv	25.0		114	69-123 %			
Isobutyl Mercaptan	29.6	5.00	ppbv	25.0		118	57-127 %			
n-Butyl Mercaptan	29.3	5.00	ppbv	25.0		117	74-124 %			
Diethyl Sulfide	30.2	5.00	ppbv	25.0		121	63-116 %			J
3-Methyl Thiophene	28.7	5.00	ppbv	25.0		115	72-121 %			
Tetrahydrothiophene	29.7	5.00	ppbv	25.0		119	60-128 %			
Dimethyl Disulfide	29.6	5.00	ppbv	25.0		118	67-124 %			
2-Ethyl Thiophene	30.4	5.00	ppbv	25.0		122	63-131 %			
Diethyl Disulfide	28.9	5.00	ppbv	25.0		116	57-135 %			
2,5-Dimethyl Thiophene	29.9	5.00	ppbv	25.0		120	58-136 %			
LCS Dup (B012012-BSD1)			**Prepared:**	**09-Dec-10 06:30**		**Analyzed:**	**09-Dec-10 11:22**			
Hydrogen sulfide	36.6	5.00	ppbv	25.0		147	63-128 %	14	30	J
Carbonyl Sulfide	37.8	5.00	ppbv	25.0		151	78-195 %	15	30	
Methyl Mercaptan	35.6	5.00	ppbv	25.0		142	58-131 %	18	30	J
Ethyl Mercaptan	36.0	5.00	ppbv	25.0		144	52-138 %	18	30	J
Dimethyl Sulfide	35.8	5.00	ppbv	25.0		143	75-118 %	16	30	J
Carbon Disulfide	35.5	5.00	ppbv	25.0		142	71-186 %	22	30	
Isopropyl Mercaptan	36.5	5.00	ppbv	25.0		146	66-117 %	21	30	J
tert-Butyl Mercaptan	36.6	5.00	ppbv	25.0		147	52-138 %	23	30	J
n-Propyl Mercaptan	35.3	5.00	ppbv	25.0		141	61-128 %	23	30	J
Ethyl Methyl Sulfide	36.8	5.00	ppbv	25.0		147	70-123 %	23	30	J
Thiophene	34.6	5.00	ppbv	25.0		138	69-123 %	19	30	J
Isobutyl Mercaptan	37.2	5.00	ppbv	25.0		149	57-127 %	23	30	J

LAKELAND LABORATORIES

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:52

Reduced Sulfur Compounds in Air by GC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012012 - Prep Method: None										
LCS Dup (B012012-BSD1)		**Prepared:**	**09-Dec-10 06:30**	**Analyzed:**	**09-Dec-10 11:22**					
n-Butyl Mercaptan	36.5	5.00	ppbv	25.0		146	74-124 %	22	30	J
Diethyl Sulfide	36.3	5.00	ppbv	25.0		145	63-116 %	18	30	J
3-Methyl Thiophene	35.4	5.00	ppbv	25.0		142	72-121 %	21	30	J
Tetrahydrothiophene	34.7	5.00	ppbv	25.0		139	60-128 %	15	30	J
Dimethyl Disulfide	36.0	5.00	ppbv	25.0		144	67-124 %	20	30	J
2-Ethyl Thiophene	35.9	5.00	ppbv	25.0		144	63-131 %	17	30	J
Diethyl Disulfide	34.3	5.00	ppbv	25.0		137	57-135 %	17	30	J
2,5-Dimethyl Thiophene	34.1	5.00	ppbv	25.0		136	58-136 %	13	30	
Duplicate (B012012-DUP1)	**Source: 1012089-01**	**Prepared:**	**09-Dec-10 06:30**	**Analyzed:**	**09-Dec-10 07:28**					
Hydrogen sulfide	U	5.00	ppbv		U				30	
Carbonyl Sulfide	U	5.00	ppbv		U				30	
Methyl Mercaptan	U	5.00	ppbv		U				30	
Ethyl Mercaptan	U	5.00	ppbv		U				30	
Dimethyl Sulfide	U	5.00	ppbv		U				30	
Carbon Disulfide	U	5.00	ppbv		U				30	
Isopropyl Mercaptan	U	5.00	ppbv		U				30	
tert-Butyl Mercaptan	U	5.00	ppbv		U				30	
n-Propyl Mercaptan	U	5.00	ppbv		U				30	
Ethyl Methyl Sulfide	U	5.00	ppbv		U				30	
Thiophene	U	5.00	ppbv		U				30	
Isobutyl Mercaptan	U	5.00	ppbv		U				30	
n-Butyl Mercaptan	U	5.00	ppbv		U				30	
Diethyl Sulfide	U	5.00	ppbv		U				30	
3-Methyl Thiophene	U	5.00	ppbv		U				30	
Tetrahydrothiophene	U	5.00	ppbv		U				30	
Dimethyl Disulfide	U	5.00	ppbv		U				30	
2-Ethyl Thiophene	U	5.00	ppbv		U				30	

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Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:52

Reduced Sulfur Compounds in Air by GC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012012 - Prep Method: None										
Duplicate (B012012-DUP1)	**Source: 1012089-01**		**Prepared: 09-Dec-10 06:30**			**Analyzed: 09-Dec-10 07:28**				
Diethyl Disulfide	U	5.00	ppbv		U				30	
2,5-Dimethyl Thiophene	U	5.00	ppbv		U				30	
Matrix Spike (B012012-MS1)	**Source: 1012089-01**		**Prepared: 09-Dec-10 06:30**			**Analyzed: 09-Dec-10 07:39**				
Hydrogen sulfide	35.2	5.00	ppbv	25.0	U	141	63-128 %			J
Carbonyl Sulfide	35.5	5.00	ppbv	25.0	U	142	78-195 %			
Methyl Mercaptan	32.7	5.00	ppbv	25.0	U	131	58-131 %			
Ethyl Mercaptan	32.9	5.00	ppbv	25.0	U	131	52-138 %			
Dimethyl Sulfide	32.6	5.00	ppbv	25.0	U	131	75-118 %			J
Carbon Disulfide	36.4	5.00	ppbv	25.0	U	146	71-186 %			
Isopropyl Mercaptan	32.4	5.00	ppbv	25.0	U	130	66-117 %			J
tert-Butyl Mercaptan	33.4	5.00	ppbv	25.0	U	134	52-138 %			
n-Propyl Mercaptan	34.5	5.00	ppbv	25.0	U	138	61-128 %			J
Ethyl Methyl Sulfide	31.7	5.00	ppbv	25.0	U	127	70-123 %			J
Thiophene	31.4	5.00	ppbv	25.0	U	126	69-123 %			J
Isobutyl Mercaptan	33.7	5.00	ppbv	25.0	U	135	57-127 %			J
n-Butyl Mercaptan	32.7	5.00	ppbv	25.0	U	131	74-124 %			J
Diethyl Sulfide	33.1	5.00	ppbv	25.0	U	132	63-116 %			J
3-Methyl Thiophene	31.6	5.00	ppbv	25.0	U	126	72-121 %			J
Tetrahydrothiophene	31.0	5.00	ppbv	25.0	U	124	60-128 %			
Dimethyl Disulfide	32.1	5.00	ppbv	25.0	U	128	67-124 %			J
2-Ethyl Thiophene	32.8	5.00	ppbv	25.0	U	131	63-131 %			
Diethyl Disulfide	30.7	5.00	ppbv	25.0	U	123	57-135 %			
2,5-Dimethyl Thiophene	32.8	5.00	ppbv	25.0	U	131	58-136 %			
Matrix Spike Dup (B012012-MSD1)	**Source: 1012089-01**		**Prepared: 09-Dec-10 06:30**			**Analyzed: 09-Dec-10 07:55**				
Hydrogen sulfide	33.8	5.00	ppbv	25.0	U	135	63-128 %	4	30	J
Carbonyl Sulfide	36.5	5.00	ppbv	25.0	U	146	78-195 %	3	30	

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Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:52

Reduced Sulfur Compounds in Air by GC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012012 - Prep Method: None										
Matrix Spike Dup (B012012-MSD1)	**Source: 1012089-01**	**Prepared:**	**09-Dec-10 06:30**		**Analyzed:**	**09-Dec-10 07:55**				
Methyl Mercaptan	32.6	5.00	ppbv	25.0	U	130	58-131 %	0.5	30	
Ethyl Mercaptan	32.8	5.00	ppbv	25.0	U	131	52-138 %	0.3	30	
Dimethyl Sulfide	32.8	5.00	ppbv	25.0	U	131	75-118 %	0.5	30	J
Carbon Disulfide	35.8	5.00	ppbv	25.0	U	143	71-186 %	2	30	
Isopropyl Mercaptan	32.4	5.00	ppbv	25.0	U	130	66-117 %	0.02	30	J
tert-Butyl Mercaptan	33.1	5.00	ppbv	25.0	U	132	52-138 %	0.8	30	
n-Propyl Mercaptan	32.8	5.00	ppbv	25.0	U	131	61-128 %	5	30	J
Ethyl Methyl Sulfide	31.3	5.00	ppbv	25.0	U	125	70-123 %	1	30	J
Thiophene	31.2	5.00	ppbv	25.0	U	125	69-123 %	0.6	30	J
Isobutyl Mercaptan	31.9	5.00	ppbv	25.0	U	128	57-127 %	5	30	J
n-Butyl Mercaptan	31.5	5.00	ppbv	25.0	U	126	74-124 %	4	30	J
Diethyl Sulfide	31.6	5.00	ppbv	25.0	U	126	63-116 %	5	30	J
3-Methyl Thiophene	31.4	5.00	ppbv	25.0	U	126	72-121 %	0.5	30	J
Tetrahydrothiophene	31.0	5.00	ppbv	25.0	U	124	60-128 %	0.08	30	
Dimethyl Disulfide	32.0	5.00	ppbv	25.0	U	128	67-124 %	0.2	30	J
2-Ethyl Thiophene	31.6	5.00	ppbv	25.0	U	126	63-131 %	4	30	
Diethyl Disulfide	31.5	5.00	ppbv	25.0	U	126	57-135 %	3	30	
2,5-Dimethyl Thiophene	30.7	5.00	ppbv	25.0	U	123	58-136 %	6	30	

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:52

Notes and Definitions

J	Estimated Value
DET	Analyte DETECTED
U	Analyte NOT DETECTED at or above the MDL
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
PQL	Practical Quantitation Limit

Results of liquid samples are reported on a wet-weight basis unless otherwise indicated. Results of solid samples are reported on a dry-weight basis unless otherwise indicated.

LAKELAND LABORATORIES, LLC
1910 HARDEN BOULEVARD, SUITE 101
LAKELAND, FLORIDA 33803-1829
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Work Order # 1012094

Chain of Custody Record

Company: ENVIRON International Corp.	Project Name: Fort Bragg - 8 Homes	Page 1 of 1
Address: 10150 Highland Manor Drive, Suite 440, Tampa, FL 33610	Project #:	DEP Form #: 62-770.900(2)
	Project Manager: James L. Poole, PhD, CIH	Form Title: Chain of Custody Record
	Project Location: [redacted]	Effective Date: September 23, 1997
Phone: (813) 628-4325 Fax: (813) 628-4983	P. O. #:	FDEP Facility No.:
Sampled by [Print Name(s)] / Affiliation: James L. Poole, PhD, CIH/ENVIRON	Preservatives (see codes)	Project Name:
Sampler(s) Signature(s)	Analyses Requested	

Item No.	Field ID No.	Sampled Date	Sampled Time	Grab or Composite	Matrix (see codes)	Number of Containers	ASTM D5504-08	REQUESTED DUE DATE / / Remarks	Lab. No.
1	120810-21WG-10	12/08/2010	1433	G	A	1	X	kitchen	001
2	120810-21WG-11	"	1438	G	A	1	X	master bedroom	002
3	120810-21WG-12	"	1443	G	A	1	X	outdoor front	003
4	120810-21WG-13	"	1448	G	A	1	X	outdoor rear	004

Shipment Method <= Total Number of Containers

Out: / /	Via:	Item No.	Relinquished by / Affiliation	Date	Time	Accepted by / Affiliation	Date	Time
Returned: / /	Via:	1-4	/ENVIRON	12/08/2010	1800	8729 6310 3551 /LL	12-9-10	1800
Additional Comments:		1-4	FedEx 8729 6310 3551	12-9-10	0810		12/9/10	0810

Cooler No.(s) / Temperature(s) (°C)	Sampling Kit No.	Equipment ID No.
Ambient °C		

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) O = Other (specify)

PRESERVATIVE CODES: H = Hydrochloric acid + ice I = Ice only N = Nitric acid + ice S = Sulfuric acid + ice O = Other (specify)

ENVIRON

5

January 19, 2011

[redacted]
Chief, Environmental Compliance Branch
Directorate of Public Works
Bldg. 3-1137, Butner Road
Fort Bragg, North Carolina 28310

Via email: [redacted]@us.army.mil

RE: [redacted] Fort Bragg, North Carolina 28307

Dear [redacted],

Pursuant to your request, ENVIRON has evaluated this home to determine whether there is evidence in the home of effects from defective gypsum wallboard. ENVIRON's evaluation included:

- the measurement of indoor and outdoor air using a calibrated direct-reading hydrogen sulfide analyzer
- the collection of indoor and outdoor ambient air samples for subsequent laboratory analysis
- examination of the air handler of the HVAC system, copper portions of plumbing and electrical components, including receptacles, switches and exposed copper wiring
- opening walls to inspect for labeling or manufacturing marks on wallboard
- collection of wallboard samples for analysis of elemental sulfur

On December 8, 2010, ENVIRON collected indoor and outdoor ambient air samples for subsequent laboratory analysis (Sample 120810-36LS-10 from the kitchen; Sample 120810-36LS-11 from the master bedroom; and Samples 120810-36LS-12 and 120810-36LS-13 from outdoors). ENVIRON delivered the air samples to Lakeland Labs, LLC, an independent accredited laboratory, which tested the air samples for the presence and concentration of 20 sulfur-containing compounds using American Society for Testing and Materials (ASTM) Method D-5504. As you can see from the attached laboratory results, Lakeland Labs, LLC did not report measureable levels of any of the 20 sulfur compounds. In addition, the calibrated direct-reading hydrogen sulfide analyzer detected no indoor concentrations of hydrogen sulfide above the levels detected outside of the home.

ENVIRON also inspected copper components associated with the HVAC system and plumbing, as well as electrical components for discoloration and residue characteristic of corrosion from exposure to defective gypsum wallboard. No black surface accumulations were observed.

ENVIRON cut openings in walls to observe the unpainted side of wallboard for labeling or markings indicative of Chinese-manufactured wallboard. No markings associated with

Chinese-manufactured wallboard were found. We did not detect odors characteristic of defective Chinese-manufactured wallboard in the home or while opening walls.

ENVIRON collected and submitted two wallboard samples to Lakeland Labs, LLC for analysis of elemental sulfur content. Elemental sulfur is a particular form of sulfur present at elevated levels in defective wallboard that produces corrosive sulfide gases. Analyzed samples were collected from the first floor hall closet (120810-36LS-1b) and the north bedroom (120810-36LS-2b). The laboratory did not detect elemental sulfur in any of the samples, as shown in the attached report. None of these samples have the chemical composition associated with defective wallboard.

Based on these observations, ENVIRON concludes that there is no evidence of effects from defective wallboard in the subject home. Also, we did not find indications suggesting that the wallboard was manufactured in China. If you have any questions or concerns regarding our evaluation, please do not hesitate to contact us.

Sincerely,

Robert P. DeMott, PhD, DABT
Principal Toxicologist

James L. Poole, PhD, CIH
Principal Industrial Hygienist

Enclosure: Attachment 1, Laboratory Results

ATTACHMENT 1

[redacted]

LABORATORY RESULTS

LAKELAND
LABORATORIES

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12 December 2010

ENVIRON International Corp.
ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

RE: Fort Bragg - 8 Homes
Project Location: [redacted]

Dear ENVIRON International Corp.:

This report details the analytical results of samples collected at the above-referenced project location as well as the results of any associated quality control samples. These samples were taken into custody by Lakeland Laboratories at **09-Dec-10 08:10.**

The work detailed herein has been conducted in accordance with generally accepted professional standards using recognized testing methodologies and quality control measures. It must be noted that the results detailed within this final report apply only to those samples submitted for analysis and reported here. When the NELAP logo is affixed to this report, these test results meet all requirements of the National Environmental Laboratory Accreditation Conference (NELAC).

Your samples will be retained by Lakeland Laboratories for a period of at least 30 days following sample receipt or until the longest of the preparation and/or analytical hold times expires, whichever is shorter. After that time, they will be properly disposed without further notice, unless there exists an explicit contractual agreement to the contrary. We reserve the right to return any unused samples, extracts, or related materials or solutions to you if we consider it necessary. Examples might include those samples identified as hazardous wastes, submissions where the sample sizes significantly exceed those required for analysis, samples containing controlled substances, etc.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full. We will maintain a copy of this report, electronic or otherwise, in our files for at least five years, after which time it may be destroyed without further notice, unless there exists an explicit contractual agreement to the contrary.

We thank you for selecting Lakeland Laboratories to serve your analytical needs. Should you have any questions or require additional information regarding any of the information in this report, please feel free to contact us at any time. We appreciate the opportunity to be of service.

Sincerely,

Technical Director
Mark Alessandroni

LAKELAND LABORATORIES

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:54

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
120810-36LS-10	1012095-01	Air	08-Dec-10 13:20	09-Dec-10 08:10
120810-36LS-11	1012095-02	Air	08-Dec-10 13:25	09-Dec-10 08:10
120810-36LS-12	1012095-03	Air	08-Dec-10 13:30	09-Dec-10 08:10
120810-36LS-13	1012095-04	Air	08-Dec-10 13:35	09-Dec-10 08:10

Comments on Sample Receipt:
Samples were delivered via overnight courier (Federal Express Airbill No. 8728 6310 3591) and received in the laboratory at 8:10 AM on December 9, 2010. The samples were analyzed the same day, within the mandated holding time of 24 hours. Unless noted elsewhere in the report, no deviations from the laboratory SOP were made.

Comments on Sample Analyses:
The analytical system exhibited a high bias for all but two compounds (carbonyl sulfide and carbon disulfide) in the matrix spike-matrix spike duplicate and the blank spike-blank spike duplicate QA pairs. All compounds met criteria in both QA pairs for relative percent difference (precision). Due to the short holding time for these samples and the logistical impracticability of recalibrating the system or re-analyzing these samples within the 24-hour hold time, results are reported here appropriately flagged. A high bias in the analytical system is indicative of increased sensitivity and elevated response for compounds that under normal circumstances might not exceed practical quantitation limits (PQLs). Because none of the target analytes exhibiting a high bias were detected in any of the samples above the PQL, impacts to data validity are not expected to be significant. A method reporting limit (MRL) standard was run at the end of the analytical sequence, confirming sensitivity of the analytical system.

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Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:54

120810-36LS-10
1012095-01 (Air)

Prepared: 09-Dec-10 09:00
Analyzed: 09-Dec-10 10:02

Lakeland Laboratories, LLC

Reduced Sulfur Compounds in Air by GC — Batch: B012012

Analyte	Result	PQL	Units	Dilution	Method	Qualifiers
Hydrogen sulfide	U	5.00	ppbv	1	D5504-08	
Carbonyl Sulfide	U	5.00	ppbv	1	D5504-08	
Methyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Dimethyl Sulfide	U	5.00	ppbv	1	D5504-08	
Carbon Disulfide	U	5.00	ppbv	1	D5504-08	
Isopropyl Mercaptan	U	5.00	ppbv	1	D5504-08	
tert-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Propyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Methyl Sulfide	U	5.00	ppbv	1	D5504-08	
Thiophene	U	5.00	ppbv	1	D5504-08	
Isobutyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Diethyl Sulfide	U	5.00	ppbv	1	D5504-08	
3-Methyl Thiophene	U	5.00	ppbv	1	D5504-08	
Tetrahydrothiophene	U	5.00	ppbv	1	D5504-08	
Dimethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2-Ethyl Thiophene	U	5.00	ppbv	1	D5504-08	
Diethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2,5-Dimethyl Thiophene	U	5.00	ppbv	1	D5504-08	

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ENVIRON International Corp.
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Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:54

120810-36LS-11
1012095-02 (Air)

Prepared: 09-Dec-10 09:00
Analyzed: 09-Dec-10 10:13

Lakeland Laboratories, LLC

Reduced Sulfur Compounds in Air by GC — Batch: B012012

Analyte	Result	PQL	Units	Dilution	Method	Qualifiers
Hydrogen sulfide	U	5.00	ppbv	1	D5504-08	
Carbonyl Sulfide	U	5.00	ppbv	1	D5504-08	
Methyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Dimethyl Sulfide	U	5.00	ppbv	1	D5504-08	
Carbon Disulfide	U	5.00	ppbv	1	D5504-08	
Isopropyl Mercaptan	U	5.00	ppbv	1	D5504-08	
tert-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Propyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Methyl Sulfide	U	5.00	ppbv	1	D5504-08	
Thiophene	U	5.00	ppbv	1	D5504-08	
Isobutyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Diethyl Sulfide	U	5.00	ppbv	1	D5504-08	
3-Methyl Thiophene	U	5.00	ppbv	1	D5504-08	
Tetrahydrothiophene	U	5.00	ppbv	1	D5504-08	
Dimethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2-Ethyl Thiophene	U	5.00	ppbv	1	D5504-08	
Diethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2,5-Dimethyl Thiophene	U	5.00	ppbv	1	D5504-08	

LAKELAND LABORATORIES

1910 Harden Boulevard
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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name:Fort Bragg - 8 Homes
Project Number:[none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:54

120810-36LS-12
1012095-03 (Air)

Prepared: 09-Dec-10 09:00
Analyzed: 09-Dec-10 10:24

Lakeland Laboratories, LLC

Reduced Sulfur Compounds in Air by GC — Batch: B012012

Analyte	Result	PQL	Units	Dilution	Method	Qualifiers
Hydrogen sulfide	U	5.00	ppbv	1	D5504-08	
Carbonyl Sulfide	U	5.00	ppbv	1	D5504-08	
Methyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Dimethyl Sulfide	U	5.00	ppbv	1	D5504-08	
Carbon Disulfide	U	5.00	ppbv	1	D5504-08	
Isopropyl Mercaptan	U	5.00	ppbv	1	D5504-08	
tert-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Propyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Methyl Sulfide	U	5.00	ppbv	1	D5504-08	
Thiophene	U	5.00	ppbv	1	D5504-08	
Isobutyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Diethyl Sulfide	U	5.00	ppbv	1	D5504-08	
3-Methyl Thiophene	U	5.00	ppbv	1	D5504-08	
Tetrahydrothiophene	U	5.00	ppbv	1	D5504-08	
Dimethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2-Ethyl Thiophene	U	5.00	ppbv	1	D5504-08	
Diethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2,5-Dimethyl Thiophene	U	5.00	ppbv	1	D5504-08	

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:54

120810-36LS-13
1012095-04 (Air)

Prepared: 09-Dec-10 09:00
Analyzed: 09-Dec-10 10:38

Lakeland Laboratories, LLC

Reduced Sulfur Compounds in Air by GC — Batch: B012012

Analyte	Result	PQL	Units	Dilution	Method	Qualifiers
Hydrogen sulfide	U	5.00	ppbv	1	D5504-08	
Carbonyl Sulfide	U	5.00	ppbv	1	D5504-08	
Methyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Dimethyl Sulfide	U	5.00	ppbv	1	D5504-08	
Carbon Disulfide	U	5.00	ppbv	1	D5504-08	
Isopropyl Mercaptan	U	5.00	ppbv	1	D5504-08	
tert-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Propyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Methyl Sulfide	U	5.00	ppbv	1	D5504-08	
Thiophene	U	5.00	ppbv	1	D5504-08	
Isobutyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Diethyl Sulfide	U	5.00	ppbv	1	D5504-08	
3-Methyl Thiophene	U	5.00	ppbv	1	D5504-08	
Tetrahydrothiophene	U	5.00	ppbv	1	D5504-08	
Dimethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2-Ethyl Thiophene	U	5.00	ppbv	1	D5504-08	
Diethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2,5-Dimethyl Thiophene	U	5.00	ppbv	1	D5504-08	

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Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:54

Reduced Sulfur Compounds in Air by GC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012012 - Prep Method: None										
Blank (B012012-BLK1)		**Prepared: 09-Dec-10 06:30**		**Analyzed: 09-Dec-10 06:49**						
Hydrogen sulfide	U	5.00	ppbv							
Carbonyl Sulfide	U	5.00	ppbv							
Methyl Mercaptan	U	5.00	ppbv							
Ethyl Mercaptan	U	5.00	ppbv							
Dimethyl Sulfide	U	5.00	ppbv							
Carbon Disulfide	U	5.00	ppbv							
Isopropyl Mercaptan	U	5.00	ppbv							
tert-Butyl Mercaptan	U	5.00	ppbv							
n-Propyl Mercaptan	U	5.00	ppbv							
Ethyl Methyl Sulfide	U	5.00	ppbv							
Thiophene	U	5.00	ppbv							
Isobutyl Mercaptan	U	5.00	ppbv							
n-Butyl Mercaptan	U	5.00	ppbv							
Diethyl Sulfide	U	5.00	ppbv							
3-Methyl Thiophene	U	5.00	ppbv							
Tetrahydrothiophene	U	5.00	ppbv							
Dimethyl Disulfide	U	5.00	ppbv							
2-Ethyl Thiophene	U	5.00	ppbv							
Diethyl Disulfide	U	5.00	ppbv							
2,5-Dimethyl Thiophene	U	5.00	ppbv							
LCS (B012012-BS1)		**Prepared: 09-Dec-10 06:30**		**Analyzed: 09-Dec-10 07:00**						
Hydrogen sulfide	31.7	5.00	ppbv	25.0		127	63-128 %			
Carbonyl Sulfide	32.6	5.00	ppbv	25.0		130	78-195 %			
Methyl Mercaptan	29.8	5.00	ppbv	25.0		119	58-131 %			
Ethyl Mercaptan	29.9	5.00	ppbv	25.0		120	52-138 %			
Dimethyl Sulfide	30.3	5.00	ppbv	25.0		121	75-118 %			J
Carbon Disulfide	28.4	5.00	ppbv	25.0		114	71-186 %			

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Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:54

Reduced Sulfur Compounds in Air by GC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012012 - Prep Method: None										
LCS (B012012-BS1)		**Prepared: 09-Dec-10 06:30**			**Analyzed: 09-Dec-10 07:00**					
Isopropyl Mercaptan	29.5	5.00	ppbv	25.0		118	66-117 %			J
tert-Butyl Mercaptan	29.1	5.00	ppbv	25.0		116	52-138 %			
n-Propyl Mercaptan	28.1	5.00	ppbv	25.0		113	61-128 %			
Ethyl Methyl Sulfide	29.2	5.00	ppbv	25.0		117	70-123 %			
Thiophene	28.5	5.00	ppbv	25.0		114	69-123 %			
Isobutyl Mercaptan	29.6	5.00	ppbv	25.0		118	57-127 %			
n-Butyl Mercaptan	29.3	5.00	ppbv	25.0		117	74-124 %			
Diethyl Sulfide	30.2	5.00	ppbv	25.0		121	63-116 %			J
3-Methyl Thiophene	28.7	5.00	ppbv	25.0		115	72-121 %			
Tetrahydrothiophene	29.7	5.00	ppbv	25.0		119	60-128 %			
Dimethyl Disulfide	29.6	5.00	ppbv	25.0		118	67-124 %			
2-Ethyl Thiophene	30.4	5.00	ppbv	25.0		122	63-131 %			
Diethyl Disulfide	28.9	5.00	ppbv	25.0		116	57-135 %			
2,5-Dimethyl Thiophene	29.9	5.00	ppbv	25.0		120	58-136 %			
LCS Dup (B012012-BSD1)		**Prepared: 09-Dec-10 06:30**			**Analyzed: 09-Dec-10 11:22**					
Hydrogen sulfide	36.6	5.00	ppbv	25.0		147	63-128 %	14	30	J
Carbonyl Sulfide	37.8	5.00	ppbv	25.0		151	78-195 %	15	30	
Methyl Mercaptan	35.6	5.00	ppbv	25.0		142	58-131 %	18	30	J
Ethyl Mercaptan	36.0	5.00	ppbv	25.0		144	52-138 %	18	30	J
Dimethyl Sulfide	35.8	5.00	ppbv	25.0		143	75-118 %	16	30	J
Carbon Disulfide	35.5	5.00	ppbv	25.0		142	71-186 %	22	30	
Isopropyl Mercaptan	36.5	5.00	ppbv	25.0		146	66-117 %	21	30	J
tert-Butyl Mercaptan	36.6	5.00	ppbv	25.0		147	52-138 %	23	30	J
n-Propyl Mercaptan	35.3	5.00	ppbv	25.0		141	61-128 %	23	30	J
Ethyl Methyl Sulfide	36.8	5.00	ppbv	25.0		147	70-123 %	23	30	J
Thiophene	34.6	5.00	ppbv	25.0		138	69-123 %	19	30	J
Isobutyl Mercaptan	37.2	5.00	ppbv	25.0		149	57-127 %	23	30	J

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:54

Reduced Sulfur Compounds in Air by GC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012012 - Prep Method: None										
LCS Dup (B012012-BSD1)			**Prepared: 09-Dec-10 06:30**				**Analyzed: 09-Dec-10 11:22**			
n-Butyl Mercaptan	36.5	5.00	ppbv	25.0		146	74-124 %	22	30	J
Diethyl Sulfide	36.3	5.00	ppbv	25.0		145	63-116 %	18	30	J
3-Methyl Thiophene	35.4	5.00	ppbv	25.0		142	72-121 %	21	30	J
Tetrahydrothiophene	34.7	5.00	ppbv	25.0		139	60-128 %	15	30	J
Dimethyl Disulfide	36.0	5.00	ppbv	25.0		144	67-124 %	20	30	J
2-Ethyl Thiophene	35.9	5.00	ppbv	25.0		144	63-131 %	17	30	J
Diethyl Disulfide	34.3	5.00	ppbv	25.0		137	57-135 %	17	30	J
2,5-Dimethyl Thiophene	34.1	5.00	ppbv	25.0		136	58-136 %	13	30	
Duplicate (B012012-DUP1)	**Source: 1012089-01**		**Prepared: 09-Dec-10 06:30**				**Analyzed: 09-Dec-10 07:28**			
Hydrogen sulfide	U	5.00	ppbv		U				30	
Carbonyl Sulfide	U	5.00	ppbv		U				30	
Methyl Mercaptan	U	5.00	ppbv		U				30	
Ethyl Mercaptan	U	5.00	ppbv		U				30	
Dimethyl Sulfide	U	5.00	ppbv		U				30	
Carbon Disulfide	U	5.00	ppbv		U				30	
Isopropyl Mercaptan	U	5.00	ppbv		U				30	
tert-Butyl Mercaptan	U	5.00	ppbv		U				30	
n-Propyl Mercaptan	U	5.00	ppbv		U				30	
Ethyl Methyl Sulfide	U	5.00	ppbv		U				30	
Thiophene	U	5.00	ppbv		U				30	
Isobutyl Mercaptan	U	5.00	ppbv		U				30	
n-Butyl Mercaptan	U	5.00	ppbv		U				30	
Diethyl Sulfide	U	5.00	ppbv		U				30	
3-Methyl Thiophene	U	5.00	ppbv		U				30	
Tetrahydrothiophene	U	5.00	ppbv		U				30	
Dimethyl Disulfide	U	5.00	ppbv		U				30	
2-Ethyl Thiophene	U	5.00	ppbv		U				30	

LAKELAND LABORATORIES

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:54

Reduced Sulfur Compounds in Air by GC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012012 - Prep Method: None										
Duplicate (B012012-DUP1)	**Source: 1012089-01**	**Prepared: 09-Dec-10 06:30**			**Analyzed: 09-Dec-10 07:28**					
Diethyl Disulfide	U	5.00	ppbv		U				30	
2,5-Dimethyl Thiophene	U	5.00	ppbv		U				30	
Matrix Spike (B012012-MS1)	**Source: 1012089-01**	**Prepared: 09-Dec-10 06:30**			**Analyzed: 09-Dec-10 07:39**					
Hydrogen sulfide	35.2	5.00	ppbv	25.0	U	141	63-128 %			J
Carbonyl Sulfide	35.5	5.00	ppbv	25.0	U	142	78-195 %			
Methyl Mercaptan	32.7	5.00	ppbv	25.0	U	131	58-131 %			
Ethyl Mercaptan	32.9	5.00	ppbv	25.0	U	131	52-138 %			
Dimethyl Sulfide	32.6	5.00	ppbv	25.0	U	131	75-118 %			J
Carbon Disulfide	36.4	5.00	ppbv	25.0	U	146	71-186 %			
Isopropyl Mercaptan	32.4	5.00	ppbv	25.0	U	130	66-117 %			J
tert-Butyl Mercaptan	33.4	5.00	ppbv	25.0	U	134	52-138 %			
n-Propyl Mercaptan	34.5	5.00	ppbv	25.0	U	138	61-128 %			J
Ethyl Methyl Sulfide	31.7	5.00	ppbv	25.0	U	127	70-123 %			J
Thiophene	31.4	5.00	ppbv	25.0	U	126	69-123 %			J
Isobutyl Mercaptan	33.7	5.00	ppbv	25.0	U	135	57-127 %			J
n-Butyl Mercaptan	32.7	5.00	ppbv	25.0	U	131	74-124 %			J
Diethyl Sulfide	33.1	5.00	ppbv	25.0	U	132	63-116 %			J
3-Methyl Thiophene	31.6	5.00	ppbv	25.0	U	126	72-121 %			J
Tetrahydrothiophene	31.0	5.00	ppbv	25.0	U	124	60-128 %			
Dimethyl Disulfide	32.1	5.00	ppbv	25.0	U	128	67-124 %			J
2-Ethyl Thiophene	32.8	5.00	ppbv	25.0	U	131	63-131 %			
Diethyl Disulfide	30.7	5.00	ppbv	25.0	U	123	57-135 %			
2,5-Dimethyl Thiophene	32.8	5.00	ppbv	25.0	U	131	58-136 %			
Matrix Spike Dup (B012012-MSD1)	**Source: 1012089-01**	**Prepared: 09-Dec-10 06:30**			**Analyzed: 09-Dec-10 07:55**					
Hydrogen sulfide	33.8	5.00	ppbv	25.0	U	135	63-128 %	4	30	J
Carbonyl Sulfide	36.5	5.00	ppbv	25.0	U	146	78-195 %	3	30	

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Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:54

Reduced Sulfur Compounds in Air by GC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012012 - Prep Method: None										
Matrix Spike Dup (B012012-MSD1)	**Source: 1012089-01**		**Prepared: 09-Dec-10 06:30**				**Analyzed: 09-Dec-10 07:55**			
Methyl Mercaptan	32.6	5.00	ppbv	25.0	U	130	58-131 %	0.5	30	
Ethyl Mercaptan	32.8	5.00	ppbv	25.0	U	131	52-138 %	0.3	30	
Dimethyl Sulfide	32.8	5.00	ppbv	25.0	U	131	75-118 %	0.5	30	J
Carbon Disulfide	35.8	5.00	ppbv	25.0	U	143	71-186 %	2	30	
Isopropyl Mercaptan	32.4	5.00	ppbv	25.0	U	130	66-117 %	0.02	30	J
tert-Butyl Mercaptan	33.1	5.00	ppbv	25.0	U	132	52-138 %	0.8	30	
n-Propyl Mercaptan	32.8	5.00	ppbv	25.0	U	131	61-128 %	5	30	J
Ethyl Methyl Sulfide	31.3	5.00	ppbv	25.0	U	125	70-123 %	1	30	J
Thiophene	31.2	5.00	ppbv	25.0	U	125	69-123 %	0.6	30	J
Isobutyl Mercaptan	31.9	5.00	ppbv	25.0	U	128	57-127 %	5	30	J
n-Butyl Mercaptan	31.5	5.00	ppbv	25.0	U	126	74-124 %	4	30	J
Diethyl Sulfide	31.6	5.00	ppbv	25.0	U	126	63-116 %	5	30	J
3-Methyl Thiophene	31.4	5.00	ppbv	25.0	U	126	72-121 %	0.5	30	J
Tetrahydrothiophene	31.0	5.00	ppbv	25.0	U	124	60-128 %	0.08	30	
Dimethyl Disulfide	32.0	5.00	ppbv	25.0	U	128	67-124 %	0.2	30	J
2-Ethyl Thiophene	31.6	5.00	ppbv	25.0	U	126	63-131 %	4	30	
Diethyl Disulfide	31.5	5.00	ppbv	25.0	U	126	57-135 %	3	30	
2,5-Dimethyl Thiophene	30.7	5.00	ppbv	25.0	U	123	58-136 %	6	30	

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:54

Notes and Definitions

J	Estimated Value
DET	Analyte DETECTED
U	Analyte NOT DETECTED at or above the MDL
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
PQL	Practical Quantitation Limit

Results of liquid samples are reported on a wet-weight basis unless otherwise indicated. Results of solid samples are reported on a dry-weight basis unless otherwise indicated.

LAKELAND LABORATORIES, LLC
1910 HARDEN BOULEVARD, SUITE 101
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Work Order # 1012095

Chain of Custody Record

Company: ENVIRON International Corp.	Project Name: Fort Bragg - 8 Homes	Page 1 of 1
Address: 10150 Highland Manor Drive, Suite 440, Tampa, FL 33610	Project #:	DEP Form #: 62-770.900(2)
	Project Manager: James L. Poole, PhD, CIH	Form Title: Chain of Custody Record
	Project Location: [redacted]	Effective Date: September 23, 1997
Phone: (813) 628-4325 Fax: (813) 628-4983	P. O. #:	FDEP Facility No.:
Sampled by [Print Name(s)] / Affiliation: Alta Shinn; James L. Poole, PhD, CIH/ENVIRON	Preservatives (see codes): ---	Project Name:
Sampler(s) Signature(s):	Analyses Requested: ASTM D5504-08	REQUESTED DUE DATE: / /

Item No.	Field ID No.	Sampled Date	Sampled Time	Grab or Composite	Matrix (see codes)	Number of Containers	ASTM D5504-08	Remarks	Lab. No.
1	BC810-3645-10	12/08/2010	1320	G	A	1	X	kitchen	001
2	BC810-3645-11		1325	G	A	1	X	master bedroom	002
3	BC810-3645-12		1330	G	A	1	X	Outdoor front	003
4	BC810-3645-13	↓	1335	G	A	1	X	outdoor rear	004

Shipment Method

		Item No.	Relinquished by / Affiliation	Date	Time	Accepted by / Affiliation	Date	Time
Out: / /	Via:	1-4	/ENVIRON	12/08/2010	1500	8728 6310 3591 /LL	12.8.10	1800
Returned: / /	Via:	1-4	FedEX 8728 6310 3591	12.9.10	0810	[signature]	12.9.10	0810

Additional Comments:

Cooler No.(s) / Temperature(s) (°C)

Ambient °C

Sampling Kit No.

Equipment ID No.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) O = Other (specify)

PRESERVATIVE CODES: H = Hydrochloric acid + ice I = Ice only N = Nitric acid + ice S = Sulfuric acid + ice O = Other (specify)

LAKELAND
LABORATORIES

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16 December 2010

ENVIRON International Corp.
ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

RE: Fort Bragg -
Project Location: [redacted] Fort Bragg, NC

Dear ENVIRON International Corp.:

This report details the analytical results of samples collected at the above-referenced project location as well as the results of any associated quality control samples. These samples were taken into custody by Lakeland Laboratories at **13-Dec-10 10:16.**

The work detailed herein has been conducted in accordance with generally accepted professional standards using recognized testing methodologies and quality control measures. It must be noted that the results detailed within this final report apply only to those samples submitted for analysis and reported here. When the NELAP logo is affixed to this report, these test results meet all requirements of the National Environmental Laboratory Accreditation Conference (NELAC).

Your samples will be retained by Lakeland Laboratories for a period of at least 30 days following sample receipt or until the longest of the preparation and/or analytical hold times expires, whichever is shorter. After that time, they will be properly disposed without further notice, unless there exists an explicit contractual agreement to the contrary. We reserve the right to return any unused samples, extracts, or related materials or solutions to you if we consider it necessary. Examples might include those samples identified as hazardous wastes, submissions where the sample sizes significantly exceed those required for analysis, samples containing controlled substances, etc.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full. We will maintain a copy of this report, electronic or otherwise, in our files for at least five years, after which time it may be destroyed without further notice, unless there exists an explicit contractual agreement to the contrary.

We thank you for selecting Lakeland Laboratories to serve your analytical needs. Should you have any questions or require additional information regarding any of the information in this report, please feel free to contact us at any time. We appreciate the opportunity to be of service.

Sincerely,

Technical Director
Jim Crawford For Mark Alessandroni

LAKELAND LABORATORIES

1910 Harden Boulevard
Suite 101
Lakeland, FL 33803
(863) 686-4271 Phone
(863) 686-4389 Fax

ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted] - Fort Bragg, NC
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 13:55

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
120810-36LS-1b	1012141-01	Drywall	08-Dec-10 00:00	13-Dec-10 10:16
120810-36LS-2b	1012141-02	Drywall	08-Dec-10 00:00	13-Dec-10 10:16

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted] Fort Bragg, NC
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 13:55

120810-36LS-1b
1012141-01 (Drywall)

Prepared: 13-Dec-10 10:26
Analyzed: 15-Dec-10 08:08

Analyte	Result	PQL	MDL	Units	Dilution	Method	Qualifiers
Lakeland Laboratories, LLC							
Elemental Sulfur by HPLC							Batch: B012018
Elemental Sulfur	U	2.00	1.00	mg/kg	1	LL-SULFUR	

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ENVIRON International Corp.
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Tampa, FL 33610

Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted] Fort Bragg, NC
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 13:55

120810-36LS-2b
1012141-02 (Drywall)

Prepared: 13-Dec-10 10:26
Analyzed: 15-Dec-10 11:38

Analyte	Result	PQL	MDL	Units	Dilution	Method	Qualifiers
Lakeland Laboratories, LLC							
Elemental Sulfur by HPLC							Batch: B012018
Elemental Sulfur	U	2.00	1.00	mg/kg	1	LL-SULFUR	

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Tampa, FL 33610

Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted] Fort Bragg, NC
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 13:55

Elemental Sulfur by HPLC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012018 - Prep Method: NO PREP											
Blank (B012018-BLK1)			Prepared: 13-Dec-10 10:26			Analyzed: 14-Dec-10 16:52					
Elemental Sulfur	U	2.00	1.00	mg/kg							
LCS (B012018-BS1)			Prepared: 13-Dec-10 10:26			Analyzed: 14-Dec-10 17:14					
Elemental Sulfur	134	2.00	1.00	mg/kg	167		80	70-130 %			
Duplicate (B012018-DUP1)	Source: 1012128-01		Prepared: 13-Dec-10 10:26			Analyzed: 14-Dec-10 17:56					
Elemental Sulfur	U	2.00	1.00	mg/kg		U				30	
Duplicate (B012018-DUP2)	Source: 1012136-02		Prepared: 13-Dec-10 10:26			Analyzed: 15-Dec-10 00:41					
Elemental Sulfur	U	2.00	1.00	mg/kg		U				30	
Duplicate (B012018-DUP3)	Source: 1012142-02		Prepared: 13-Dec-10 10:26			Analyzed: 15-Dec-10 12:42					
Elemental Sulfur	U	2.00	1.00	mg/kg		U				30	
Matrix Spike (B012018-MS1)	Source: 1012128-02		Prepared: 13-Dec-10 10:26			Analyzed: 14-Dec-10 19:00					
Elemental Sulfur	130	2.00	1.00	mg/kg	167	U	78	70-130 %			
Matrix Spike (B012018-MS2)	Source: 1012136-03		Prepared: 13-Dec-10 10:26			Analyzed: 15-Dec-10 01:23					
Elemental Sulfur	133	2.00	1.00	mg/kg	167	U	80	70-130 %			
Matrix Spike (B012018-MS3)	Source: 1012142-03		Prepared: 13-Dec-10 10:26			Analyzed: 15-Dec-10 13:46					
Elemental Sulfur	152	2.00	1.00	mg/kg	167	U	91	70-130 %			
Matrix Spike Dup (B012018-MSD1)	Source: 1012128-02		Prepared: 13-Dec-10 10:26			Analyzed: 14-Dec-10 19:21					
Elemental Sulfur	133	2.00	1.00	mg/kg	167	U	80	70-130 %	2	30	
Matrix Spike Dup (B012018-MSD2)	Source: 1012136-03		Prepared: 13-Dec-10 10:26			Analyzed: 15-Dec-10 01:45					
Elemental Sulfur	137	2.00	1.00	mg/kg	167	U	82	70-130 %	3	30	

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Tampa, FL 33610

Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted] Fort Bragg, NC
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 13:55

Elemental Sulfur by HPLC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012018 - Prep Method: NO PREP											
Matrix Spike Dup (B012018-MSD3)	**Source: 1012142-03**		**Prepared: 13-Dec-10 10:26**			**Analyzed: 15-Dec-10 14:07**					
Elemental Sulfur	148	2.00	1.00	mg/kg	167	U	89	70-130 %	3	30	

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Tampa, FL 33610

Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted] - Fort Bragg, NC
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 13:55

Notes and Definitions

DET	Analyte DETECTED
U	Analyte NOT DETECTED at or above the MDL
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
PQL	Practical Quantitation Limit

Results of liquid samples are reported on a wet-weight basis unless otherwise indicated. Results of solid samples are reported on a dry-weight basis unless otherwise indicated.

ENVIRON #1012141

Chain of Custody

Page 1 of 1

ENVIRON International Corporation
10150 Highlands Manor Drive, Ste 440
Tampa, FL 33610
Tel: 813-628-4325 FAX: 813.628.4983

Project name: FORT BRAGG (Chenega)
Site Address [redacted] - Fort Bragg, NC
Site Owner:
Phase # 2

Date: 12.10.10

Sample ID	Date Collected	Time Collected	Description	Medium	Analysis Requested
120810-3GLS-1b	12.08.10		drywall sample - 1st flr. hall closet adj to powder, east wall - lower	solid	elemental S
120810-3GLS-2b	↓		drywall sample - north bedroom - south wall	solid	elemental S

Shipped to: Lakeland Labs
Address: 1910 Harden Blvd Suite 101
Lakeland, ~~Labor~~ FL 33803

Shipment Method: pick-up Date:
Tracking number:
Preservation:

Collected by: Name and Date: James L. Poole 12.08.10
Signature: (see original COC)

Comments:

Relinquished by: Name: Cindy Lyons
Signature: Date: 12-13-10
Time: 10:16

Received by: Name: W GRAVELEFF
Signature: Date: 12-13-10
Time: 10:16

Relinquished by: Name:
Signature: Date:
Time:

Received by: Name:
Signature: Date:
Time:

Relinquished by: Name:
Signature: Date:
Time:

Received by: Name:
Signature: Date:
Time:

6

ENVIRON

January 19, 2011

[redacted]
Chief, Environmental Compliance Branch
Directorate of Public Works
Bldg. 3-1137, Butner Road
Fort Bragg, North Carolina 28310

Via email: [redacted]@us.army.mil

RE: [redacted] Fayetteville, North Carolina 28301

Dear [redacted]

Pursuant to your request, ENVIRON has evaluated this home to determine whether there is evidence in the home of effects from defective gypsum wallboard. ENVIRON's evaluation included:

- the measurement of indoor and outdoor air using a calibrated direct-reading hydrogen sulfide analyzer
- the collection of indoor and outdoor ambient air samples for subsequent laboratory analysis
- examination of the air handler of the HVAC system, copper portions of plumbing and electrical components, including receptacles, switches and exposed copper wiring
- opening walls to inspect for labeling or manufacturing marks on wallboard
- collection of wallboard samples for analysis of elemental sulfur

On December 8, 2010, ENVIRON collected indoor and outdoor ambient air samples for subsequent laboratory analysis (Sample 120810-99CS-10 from the kitchen; Sample 120810-99CS-11 from the master bedroom; and Samples 120810-99CS-12 and 120810-99CS-13 from outdoors). ENVIRON delivered the air samples to Lakeland Labs, LLC, an independent accredited laboratory, which tested the air samples for the presence and concentration of 20 sulfur-containing compounds using American Society for Testing and Materials (ASTM) Method D-5504. As you can see from the attached laboratory results, Lakeland Labs, LLC did not report measureable levels of any of the 20 sulfur compounds. In addition, the calibrated direct-reading hydrogen sulfide analyzer detected no indoor concentrations of hydrogen sulfide above the levels detected outside of the home.

ENVIRON also inspected copper components associated with the HVAC system and plumbing, as well as electrical components for discoloration and residue characteristic of corrosion from exposure to defective gypsum wallboard. No black surface accumulations were observed.

ENVIRON cut openings in walls to observe the unpainted side of wallboard for labeling or markings indicative of Chinese-manufactured wallboard. No markings associated with

Chinese-manufactured wallboard were found. We did not detect odors characteristic of defective Chinese-manufactured wallboard in the home or while opening walls.

ENVIRON collected and submitted five wallboard samples to Lakeland Labs, LLC for analysis of elemental sulfur content. Elemental sulfur is a particular form of sulfur present at elevated levels in defective wallboard that produces corrosive sulfide gases. Analyzed samples were collected from the closet under the stairs (120810-99CS-1a), the powder room closet (120810-99CS-2a), the family room (120810-99CS-3a), the north bedroom (120810-99CS-4d), and the south bedroom (120810-99CS-5c). The laboratory did not detect elemental sulfur in any of the samples, as shown in the attached report. None of these samples have the chemical composition associated with defective wallboard.

Based on these observations, ENVIRON concludes that there is no evidence of effects from defective wallboard in the subject home. Also, we did not find indications suggesting that the wallboard was manufactured in China. If you have any questions or concerns regarding our evaluation, please do not hesitate to contact us.

Sincerely,

Robert P. DeMott, PhD, DABT
Principal Toxicologist

James L. Poole, PhD, CIH
Principal Industrial Hygienist

Enclosure: Attachment 1, Laboratory Results

ATTACHMENT 1

[redacted]

LABORATORY RESULTS

LAKELAND LABORATORIES

1910 Harden Boulevard
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(863) 686-4271 Phone
(863) 686-4389 Fax

12 December 2010

ENVIRON International Corp.
ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

RE: Fort Bragg - 8 Homes
Project Location: [redacted]

Dear ENVIRON International Corp.:

This report details the analytical results of samples collected at the above-referenced project location as well as the results of any associated quality control samples. These samples were taken into custody by Lakeland Laboratories at **09-Dec-10 08:10.**

The work detailed herein has been conducted in accordance with generally accepted professional standards using recognized testing methodologies and quality control measures. It must be noted that the results detailed within this final report apply only to those samples submitted for analysis and reported here. When the NELAP logo is affixed to this report, these test results meet all requirements of the National Environmental Laboratory Accreditation Conference (NELAC).

Your samples will be retained by Lakeland Laboratories for a period of at least 30 days following sample receipt or until the longest of the preparation and/or analytical hold times expires, whichever is shorter. After that time, they will be properly disposed without further notice, unless there exists an explicit contractual agreement to the contrary. We reserve the right to return any unused samples, extracts, or related materials or solutions to you if we consider it necessary. Examples might include those samples identified as hazardous wastes, submissions where the sample sizes significantly exceed those required for analysis, samples containing controlled substances, etc.

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We thank you for selecting Lakeland Laboratories to serve your analytical needs. Should you have any questions or require additional information regarding any of the information in this report, please feel free to contact us at any time. We appreciate the opportunity to be of service.

Sincerely,

Technical Director
Mark Alessandroni

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:58

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
120810-99CS-10	1012097-01	Air	08-Dec-10 11:40	09-Dec-10 08:10
120810-99CS-11	1012097-02	Air	08-Dec-10 11:45	09-Dec-10 08:10
120810-99CS-12	1012097-03	Air	08-Dec-10 11:50	09-Dec-10 08:10
120810-99CS-13	1012097-04	Air	08-Dec-10 11:55	09-Dec-10 08:10

Comments on Sample Receipt:
Samples were delivered via overnight courier (Federal Express Airbill No. 8728 6310 3591) and received in the laboratory at 8:10 AM on December 9, 2010. The samples were analyzed the same day, within the mandated holding time of 24 hours. Unless noted elsewhere in the report, no deviations from the laboratory SOP were made.

Comments on Sample Analyses:
The analytical system exhibited a high bias for all but two compounds (carbonyl sulfide and carbon disulfide) in the matrix spike-matrix spike duplicate and the blank spike-blank spike duplicate QA pairs. All compounds met criteria in both QA pairs for relative percent difference (precision). Due to the short holding time for these samples and the logistical impracticability of recalibrating the system or re-analyzing these samples within the 24-hour hold time, results are reported here appropriately flagged. A high bias in the analytical system is indicative of increased sensitivity and elevated response for compounds that under normal circumstances might not exceed practical quantitation limits (PQLs). Because none of the target analytes exhibiting a high bias were detected in any of the samples above the PQL, impacts to data validity are not expected to be significant. A method reporting limit (MRL) standard was run at the end of the analytical sequence, confirming sensitivity of the analytical system.

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Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:58

120810-99CS-10
1012097-01 (Air)

Prepared: 09-Dec-10 09:00
Analyzed: 09-Dec-10 09:08

Lakeland Laboratories, LLC

Reduced Sulfur Compounds in Air by GC — Batch: B012012

Analyte	Result	PQL	Units	Dilution	Method	Qualifiers
Hydrogen sulfide	U	5.00	ppbv	1	D5504-08	
Carbonyl Sulfide	U	5.00	ppbv	1	D5504-08	
Methyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Dimethyl Sulfide	U	5.00	ppbv	1	D5504-08	
Carbon Disulfide	U	5.00	ppbv	1	D5504-08	
Isopropyl Mercaptan	U	5.00	ppbv	1	D5504-08	
tert-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Propyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Methyl Sulfide	U	5.00	ppbv	1	D5504-08	
Thiophene	U	5.00	ppbv	1	D5504-08	
Isobutyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Diethyl Sulfide	U	5.00	ppbv	1	D5504-08	
3-Methyl Thiophene	U	5.00	ppbv	1	D5504-08	
Tetrahydrothiophene	U	5.00	ppbv	1	D5504-08	
Dimethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2-Ethyl Thiophene	U	5.00	ppbv	1	D5504-08	
Diethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2,5-Dimethyl Thiophene	U	5.00	ppbv	1	D5504-08	

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Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:58

120810-99CS-11
1012097-02 (Air)

Prepared: 09-Dec-10 09:00
Analyzed: 09-Dec-10 09:19

Lakeland Laboratories, LLC

Reduced Sulfur Compounds in Air by GC — Batch: B012012

Analyte	Result	PQL	Units	Dilution	Method	Qualifiers
Hydrogen sulfide	U	5.00	ppbv	1	D5504-08	
Carbonyl Sulfide	U	5.00	ppbv	1	D5504-08	
Methyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Dimethyl Sulfide	U	5.00	ppbv	1	D5504-08	
Carbon Disulfide	U	5.00	ppbv	1	D5504-08	
Isopropyl Mercaptan	U	5.00	ppbv	1	D5504-08	
tert-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Propyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Methyl Sulfide	U	5.00	ppbv	1	D5504-08	
Thiophene	U	5.00	ppbv	1	D5504-08	
Isobutyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Diethyl Sulfide	U	5.00	ppbv	1	D5504-08	
3-Methyl Thiophene	U	5.00	ppbv	1	D5504-08	
Tetrahydrothiophene	U	5.00	ppbv	1	D5504-08	
Dimethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2-Ethyl Thiophene	U	5.00	ppbv	1	D5504-08	
Diethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2,5-Dimethyl Thiophene	U	5.00	ppbv	1	D5504-08	

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:58

120810-99CS-12
1012097-03 (Air)

Prepared: 09-Dec-10 09:00
Analyzed: 09-Dec-10 09:40

Lakeland Laboratories, LLC

Reduced Sulfur Compounds in Air by GC — Batch: B012012

Analyte	Result	PQL	Units	Dilution	Method	Qualifiers
Hydrogen sulfide	U	5.00	ppbv	1	D5504-08	
Carbonyl Sulfide	U	5.00	ppbv	1	D5504-08	
Methyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Dimethyl Sulfide	U	5.00	ppbv	1	D5504-08	
Carbon Disulfide	U	5.00	ppbv	1	D5504-08	
Isopropyl Mercaptan	U	5.00	ppbv	1	D5504-08	
tert-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Propyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Methyl Sulfide	U	5.00	ppbv	1	D5504-08	
Thiophene	U	5.00	ppbv	1	D5504-08	
Isobutyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Diethyl Sulfide	U	5.00	ppbv	1	D5504-08	
3-Methyl Thiophene	U	5.00	ppbv	1	D5504-08	
Tetrahydrothiophene	U	5.00	ppbv	1	D5504-08	
Dimethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2-Ethyl Thiophene	U	5.00	ppbv	1	D5504-08	
Diethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2,5-Dimethyl Thiophene	U	5.00	ppbv	1	D5504-08	

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Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:58

120810-99CS-13
1012097-04 (Air)

Prepared: 09-Dec-10 09:00
Analyzed: 09-Dec-10 09:51

Lakeland Laboratories, LLC

Reduced Sulfur Compounds in Air by GC Batch: B012012

Analyte	Result	PQL	Units	Dilution	Method	Qualifiers
Hydrogen sulfide	U	5.00	ppbv	1	D5504-08	
Carbonyl Sulfide	U	5.00	ppbv	1	D5504-08	
Methyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Dimethyl Sulfide	U	5.00	ppbv	1	D5504-08	
Carbon Disulfide	U	5.00	ppbv	1	D5504-08	
Isopropyl Mercaptan	U	5.00	ppbv	1	D5504-08	
tert-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Propyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Methyl Sulfide	U	5.00	ppbv	1	D5504-08	
Thiophene	U	5.00	ppbv	1	D5504-08	
Isobutyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Diethyl Sulfide	U	5.00	ppbv	1	D5504-08	
3-Methyl Thiophene	U	5.00	ppbv	1	D5504-08	
Tetrahydrothiophene	U	5.00	ppbv	1	D5504-08	
Dimethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2-Ethyl Thiophene	U	5.00	ppbv	1	D5504-08	
Diethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2,5-Dimethyl Thiophene	U	5.00	ppbv	1	D5504-08	

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Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:58

Reduced Sulfur Compounds in Air by GC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012012 - Prep Method: None										
Blank (B012012-BLK1)			**Prepared: 09-Dec-10 06:30**		**Analyzed: 09-Dec-10 06:49**					
Hydrogen sulfide	U	5.00	ppbv							
Carbonyl Sulfide	U	5.00	ppbv							
Methyl Mercaptan	U	5.00	ppbv							
Ethyl Mercaptan	U	5.00	ppbv							
Dimethyl Sulfide	U	5.00	ppbv							
Carbon Disulfide	U	5.00	ppbv							
Isopropyl Mercaptan	U	5.00	ppbv							
tert-Butyl Mercaptan	U	5.00	ppbv							
n-Propyl Mercaptan	U	5.00	ppbv							
Ethyl Methyl Sulfide	U	5.00	ppbv							
Thiophene	U	5.00	ppbv							
Isobutyl Mercaptan	U	5.00	ppbv							
n-Butyl Mercaptan	U	5.00	ppbv							
Diethyl Sulfide	U	5.00	ppbv							
3-Methyl Thiophene	U	5.00	ppbv							
Tetrahydrothiophene	U	5.00	ppbv							
Dimethyl Disulfide	U	5.00	ppbv							
2-Ethyl Thiophene	U	5.00	ppbv							
Diethyl Disulfide	U	5.00	ppbv							
2,5-Dimethyl Thiophene	U	5.00	ppbv							
LCS (B012012-BS1)			**Prepared: 09-Dec-10 06:30**		**Analyzed: 09-Dec-10 07:00**					
Hydrogen sulfide	31.7	5.00	ppbv	25.0		127	63-128 %			
Carbonyl Sulfide	32.6	5.00	ppbv	25.0		130	78-195 %			
Methyl Mercaptan	29.8	5.00	ppbv	25.0		119	58-131 %			
Ethyl Mercaptan	29.9	5.00	ppbv	25.0		120	52-138 %			
Dimethyl Sulfide	30.3	5.00	ppbv	25.0		121	75-118 %			J
Carbon Disulfide	28.4	5.00	ppbv	25.0		114	71-186 %			

LAKELAND LABORATORIES

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:58

Reduced Sulfur Compounds in Air by GC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012012 - Prep Method: None										
LCS (B012012-BS1)			**Prepared:**	**09-Dec-10 06:30**		**Analyzed:**	**09-Dec-10 07:00**			
Isopropyl Mercaptan	29.5	5.00	ppbv	25.0		118	66-117 %			J
tert-Butyl Mercaptan	29.1	5.00	ppbv	25.0		116	52-138 %			
n-Propyl Mercaptan	28.1	5.00	ppbv	25.0		113	61-128 %			
Ethyl Methyl Sulfide	29.2	5.00	ppbv	25.0		117	70-123 %			
Thiophene	28.5	5.00	ppbv	25.0		114	69-123 %			
Isobutyl Mercaptan	29.6	5.00	ppbv	25.0		118	57-127 %			
n-Butyl Mercaptan	29.3	5.00	ppbv	25.0		117	74-124 %			
Diethyl Sulfide	30.2	5.00	ppbv	25.0		121	63-116 %			J
3-Methyl Thiophene	28.7	5.00	ppbv	25.0		115	72-121 %			
Tetrahydrothiophene	29.7	5.00	ppbv	25.0		119	60-128 %			
Dimethyl Disulfide	29.6	5.00	ppbv	25.0		118	67-124 %			
2-Ethyl Thiophene	30.4	5.00	ppbv	25.0		122	63-131 %			
Diethyl Disulfide	28.9	5.00	ppbv	25.0		116	57-135 %			
2,5-Dimethyl Thiophene	29.9	5.00	ppbv	25.0		120	58-136 %			
LCS Dup (B012012-BSD1)			**Prepared:**	**09-Dec-10 06:30**		**Analyzed:**	**09-Dec-10 11:22**			
Hydrogen sulfide	36.6	5.00	ppbv	25.0		147	63-128 %	14	30	J
Carbonyl Sulfide	37.8	5.00	ppbv	25.0		151	78-195 %	15	30	
Methyl Mercaptan	35.6	5.00	ppbv	25.0		142	58-131 %	18	30	J
Ethyl Mercaptan	36.0	5.00	ppbv	25.0		144	52-138 %	18	30	J
Dimethyl Sulfide	35.8	5.00	ppbv	25.0		143	75-118 %	16	30	J
Carbon Disulfide	35.5	5.00	ppbv	25.0		142	71-186 %	22	30	
Isopropyl Mercaptan	36.5	5.00	ppbv	25.0		146	66-117 %	21	30	J
tert-Butyl Mercaptan	36.6	5.00	ppbv	25.0		147	52-138 %	23	30	J
n-Propyl Mercaptan	35.3	5.00	ppbv	25.0		141	61-128 %	23	30	J
Ethyl Methyl Sulfide	36.8	5.00	ppbv	25.0		147	70-123 %	23	30	J
Thiophene	34.6	5.00	ppbv	25.0		138	69-123 %	19	30	J
Isobutyl Mercaptan	37.2	5.00	ppbv	25.0		149	57-127 %	23	30	J

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Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:58

Reduced Sulfur Compounds in Air by GC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012012 - Prep Method: None										
LCS Dup (B012012-BSD1)		**Prepared: 09-Dec-10 06:30**			**Analyzed: 09-Dec-10 11:22**					
n-Butyl Mercaptan	36.5	5.00	ppbv	25.0		146	74-124 %	22	30	J
Diethyl Sulfide	36.3	5.00	ppbv	25.0		145	63-116 %	18	30	J
3-Methyl Thiophene	35.4	5.00	ppbv	25.0		142	72-121 %	21	30	J
Tetrahydrothiophene	34.7	5.00	ppbv	25.0		139	60-128 %	15	30	J
Dimethyl Disulfide	36.0	5.00	ppbv	25.0		144	67-124 %	20	30	J
2-Ethyl Thiophene	35.9	5.00	ppbv	25.0		144	63-131 %	17	30	J
Diethyl Disulfide	34.3	5.00	ppbv	25.0		137	57-135 %	17	30	J
2,5-Dimethyl Thiophene	34.1	5.00	ppbv	25.0		136	58-136 %	13	30	
Duplicate (B012012-DUP1)	**Source: 1012089-01**	**Prepared: 09-Dec-10 06:30**			**Analyzed: 09-Dec-10 07:28**					
Hydrogen sulfide	U	5.00	ppbv		U				30	
Carbonyl Sulfide	U	5.00	ppbv		U				30	
Methyl Mercaptan	U	5.00	ppbv		U				30	
Ethyl Mercaptan	U	5.00	ppbv		U				30	
Dimethyl Sulfide	U	5.00	ppbv		U				30	
Carbon Disulfide	U	5.00	ppbv		U				30	
Isopropyl Mercaptan	U	5.00	ppbv		U				30	
tert-Butyl Mercaptan	U	5.00	ppbv		U				30	
n-Propyl Mercaptan	U	5.00	ppbv		U				30	
Ethyl Methyl Sulfide	U	5.00	ppbv		U				30	
Thiophene	U	5.00	ppbv		U				30	
Isobutyl Mercaptan	U	5.00	ppbv		U				30	
n-Butyl Mercaptan	U	5.00	ppbv		U				30	
Diethyl Sulfide	U	5.00	ppbv		U				30	
3-Methyl Thiophene	U	5.00	ppbv		U				30	
Tetrahydrothiophene	U	5.00	ppbv		U				30	
Dimethyl Disulfide	U	5.00	ppbv		U				30	
2-Ethyl Thiophene	U	5.00	ppbv		U				30	

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Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:58

Reduced Sulfur Compounds in Air by GC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012012 - Prep Method: None										
Duplicate (B012012-DUP1)	**Source: 1012089-01**	**Prepared: 09-Dec-10 06:30**			**Analyzed: 09-Dec-10 07:28**					
Diethyl Disulfide	U	5.00	ppbv		U				30	
2,5-Dimethyl Thiophene	U	5.00	ppbv		U				30	
Matrix Spike (B012012-MS1)	**Source: 1012089-01**	**Prepared: 09-Dec-10 06:30**			**Analyzed: 09-Dec-10 07:39**					
Hydrogen sulfide	35.2	5.00	ppbv	25.0	U	141	63-128 %			J
Carbonyl Sulfide	35.5	5.00	ppbv	25.0	U	142	78-195 %			
Methyl Mercaptan	32.7	5.00	ppbv	25.0	U	131	58-131 %			
Ethyl Mercaptan	32.9	5.00	ppbv	25.0	U	131	52-138 %			
Dimethyl Sulfide	32.6	5.00	ppbv	25.0	U	131	75-118 %			J
Carbon Disulfide	36.4	5.00	ppbv	25.0	U	146	71-186 %			
Isopropyl Mercaptan	32.4	5.00	ppbv	25.0	U	130	66-117 %			J
tert-Butyl Mercaptan	33.4	5.00	ppbv	25.0	U	134	52-138 %			
n-Propyl Mercaptan	34.5	5.00	ppbv	25.0	U	138	61-128 %			J
Ethyl Methyl Sulfide	31.7	5.00	ppbv	25.0	U	127	70-123 %			J
Thiophene	31.4	5.00	ppbv	25.0	U	126	69-123 %			J
Isobutyl Mercaptan	33.7	5.00	ppbv	25.0	U	135	57-127 %			J
n-Butyl Mercaptan	32.7	5.00	ppbv	25.0	U	131	74-124 %			J
Diethyl Sulfide	33.1	5.00	ppbv	25.0	U	132	63-116 %			J
3-Methyl Thiophene	31.6	5.00	ppbv	25.0	U	126	72-121 %			J
Tetrahydrothiophene	31.0	5.00	ppbv	25.0	U	124	60-128 %			
Dimethyl Disulfide	32.1	5.00	ppbv	25.0	U	128	67-124 %			J
2-Ethyl Thiophene	32.8	5.00	ppbv	25.0	U	131	63-131 %			
Diethyl Disulfide	30.7	5.00	ppbv	25.0	U	123	57-135 %			
2,5-Dimethyl Thiophene	32.8	5.00	ppbv	25.0	U	131	58-136 %			
Matrix Spike Dup (B012012-MSD1)	**Source: 1012089-01**	**Prepared: 09-Dec-10 06:30**			**Analyzed: 09-Dec-10 07:55**					
Hydrogen sulfide	33.8	5.00	ppbv	25.0	U	135	63-128 %	4	30	J
Carbonyl Sulfide	36.5	5.00	ppbv	25.0	U	146	78-195 %	3	30	

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Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:58

Reduced Sulfur Compounds in Air by GC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012012 - Prep Method: None										
Matrix Spike Dup (B012012-MSD1)	**Source: 1012089-01**	**Prepared:**	**09-Dec-10 06:30**	**Analyzed:**	**09-Dec-10 07:55**					
Methyl Mercaptan	32.6	5.00	ppbv	25.0	U	130	58-131 %	0.5	30	
Ethyl Mercaptan	32.8	5.00	ppbv	25.0	U	131	52-138 %	0.3	30	
Dimethyl Sulfide	32.8	5.00	ppbv	25.0	U	131	75-118 %	0.5	30	J
Carbon Disulfide	35.8	5.00	ppbv	25.0	U	143	71-186 %	2	30	
Isopropyl Mercaptan	32.4	5.00	ppbv	25.0	U	130	66-117 %	0.02	30	J
tert-Butyl Mercaptan	33.1	5.00	ppbv	25.0	U	132	52-138 %	0.8	30	
n-Propyl Mercaptan	32.8	5.00	ppbv	25.0	U	131	61-128 %	5	30	J
Ethyl Methyl Sulfide	31.3	5.00	ppbv	25.0	U	125	70-123 %	1	30	J
Thiophene	31.2	5.00	ppbv	25.0	U	125	69-123 %	0.6	30	J
Isobutyl Mercaptan	31.9	5.00	ppbv	25.0	U	128	57-127 %	5	30	J
n-Butyl Mercaptan	31.5	5.00	ppbv	25.0	U	126	74-124 %	4	30	J
Diethyl Sulfide	31.6	5.00	ppbv	25.0	U	126	63-116 %	5	30	J
3-Methyl Thiophene	31.4	5.00	ppbv	25.0	U	126	72-121 %	0.5	30	J
Tetrahydrothiophene	31.0	5.00	ppbv	25.0	U	124	60-128 %	0.08	30	
Dimethyl Disulfide	32.0	5.00	ppbv	25.0	U	128	67-124 %	0.2	30	J
2-Ethyl Thiophene	31.6	5.00	ppbv	25.0	U	126	63-131 %	4	30	
Diethyl Disulfide	31.5	5.00	ppbv	25.0	U	126	57-135 %	3	30	
2,5-Dimethyl Thiophene	30.7	5.00	ppbv	25.0	U	123	58-136 %	6	30	

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:58

Notes and Definitions

J	Estimated Value
DET	Analyte DETECTED
U	Analyte NOT DETECTED at or above the MDL
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
PQL	Practical Quantitation Limit

Results of liquid samples are reported on a wet-weight basis unless otherwise indicated. Results of solid samples are reported on a dry-weight basis unless otherwise indicated.

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Work Order # 1012097

Chain of Custody Record

Company: ENVIRON International Corp.	Project Name: Fort Bragg - 8 Homes	Page 1 of 1
Address: 10150 Highland Manor Drive, Suite 440, Tampa, FL 33610	Project #:	DEP Form #: 62-770.900(2)
	Project Manager: James L. Poole, PhD, CIH	Form Title: Chain of Custody Record
	Project Location: [redacted]	Effective Date: September 23, 1997
Phone: (813) 628-4325 Fax: (813) 628-4983	P. O. #:	FDEP Facility No.:
Sampled by [Print Name(s)] / Affiliation: Nina Shinn, James L. Poole, PhD, CIH/ENVIRON	Preservatives (see codes)	Project Name:
Sampler(s) Signature(s):	Analyses Requested	REQUESTED DUE DATE: / /

Item No.	Field ID No.	Sampled Date	Sampled Time	Grab or Composite	Matrix (see codes)	Number of Containers	ASTM D5504-08	Remarks	Lab. No.
1	120810-FTCS-10	12/08/2010	1140	G	A	1	X	kitchen	001
2	120810-FTCS-11		1145	G	A	1	X	master bedroom	002
3	120810-FTCS-12		1150	G	A	1	X	Outdoor front	003
4	120810-FTCS-13	↓	1155	G	A	1	X	Outdoor rear	004

Shipment Method — <= Total Number of Containers

Out: / /	Via:	Item No.	Relinquished by / Affiliation	Date	Time	Accepted by / Affiliation	Date	Time
Returned: / /	Via:	1-4	ENVIRON	12/08/2010	1800	[illegible] /LL	12-8-10	1800
Additional Comments:		1-4	FEDEX 8728 6310 3591	12-9-10	0810			0810

Cooler No.(s) / Temperature(s) (°C)	Sampling Kit No.	Equipment ID No.
Ambient °C		

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) O = Other (specify)

PRESERVATIVE CODES: H = Hydrochloric acid + ice I = Ice only N = Nitric acid + ice S = Sulfuric acid + ice O = Other (specify)

LAKELAND
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16 December 2010

ENVIRON International Corp.
ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

RE: **Fort Bragg -**
Project Location: [redacted]

Dear ENVIRON International Corp.:

This report details the analytical results of samples collected at the above-referenced project location as well as the results of any associated quality control samples. These samples were taken into custody by Lakeland Laboratories at **13-Dec-10 10:16.**

The work detailed herein has been conducted in accordance with generally accepted professional standards using recognized testing methodologies and quality control measures. It must be noted that the results detailed within this final report apply only to those samples submitted for analysis and reported here. When the NELAP logo is affixed to this report, these test results meet all requirements of the National Environmental Laboratory Accreditation Conference (NELAC).

Your samples will be retained by Lakeland Laboratories for a period of at least 30 days following sample receipt or until the longest of the preparation and/or analytical hold times expires, whichever is shorter. After that time, they will be properly disposed without further notice, unless there exists an explicit contractual agreement to the contrary. We reserve the right to return any unused samples, extracts, or related materials or solutions to you if we consider it necessary. Examples might include those samples identified as hazardous wastes, submissions where the sample sizes significantly exceed those required for analysis, samples containing controlled substances, etc.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full. We will maintain a copy of this report, electronic or otherwise, in our files for at least five years, after which time it may be destroyed without further notice, unless there exists an explicit contractual agreement to the contrary.

We thank you for selecting Lakeland Laboratories to serve your analytical needs. Should you have any questions or require additional information regarding any of the information in this report, please feel free to contact us at any time. We appreciate the opportunity to be of service.

Sincerely,

Technical Director
Jim Crawford For Mark Alessandroni

LAKELAND LABORATORIES

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ENVIRON International Corp.
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Tampa, FL 33610

Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 13:47

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
120810-99CS-1a	1012140-01	Drywall	08-Dec-10 00:00	13-Dec-10 10:16
120810-99CS-2a	1012140-02	Drywall	08-Dec-10 00:00	13-Dec-10 10:16
120810-99CS-3a	1012140-03	Drywall	08-Dec-10 00:00	13-Dec-10 10:16
120810-99CS-4d	1012140-04	Drywall	08-Dec-10 00:00	13-Dec-10 10:16
120810-99CS-5c	1012140-05	Drywall	08-Dec-10 00:00	13-Dec-10 10:16

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Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 13:47

120810-99CS-1a
1012140-01 (Drywall)

Prepared: 13-Dec-10 10:26
Analyzed: 15-Dec-10 06:22

Analyte	Result	PQL	MDL	Units	Dilution	Method	Qualifiers
Lakeland Laboratories, LLC							
Elemental Sulfur by HPLC							Batch: B012018
Elemental Sulfur	U	2.00	1.00	mg/kg	1	LL-SULFUR	

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Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 13:47

120810-99CS-2a
1012140-02 (Drywall)

Prepared: 13-Dec-10 10:26
Analyzed: 15-Dec-10 06:43

Analyte	Result	PQL	MDL	Units	Dilution	Method	Qualifiers
Lakeland Laboratories, LLC							
Elemental Sulfur by HPLC							Batch: B012018
Elemental Sulfur	U	2.00	1.00	mg/kg	1	LL-SULFUR	

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Tampa, FL 33610

Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 13:47

120810-99CS-3a
1012140-03 (Drywall)

Prepared: 13-Dec-10 10:26
Analyzed: 15-Dec-10 07:04

Analyte	Result	PQL	MDL	Units	Dilution	Method	Qualifiers
Lakeland Laboratories, LLC							
Elemental Sulfur by HPLC							Batch: B012018
Elemental Sulfur	U	2.00	1.00	mg/kg	1	LL-SULFUR	

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Tampa, FL 33610

Project Name: Fort Bragg -
Project Number: [redacted]
Project Location:
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 13:47

120810-99CS-4d
1012140-04 (Drywall)

Prepared: 13-Dec-10 10:26
Analyzed: 15-Dec-10 07:26

Analyte	Result	PQL	MDL	Units	Dilution	Method	Qualifiers
Lakeland Laboratories, LLC							
Elemental Sulfur by HPLC							Batch: B012018
Elemental Sulfur	U	2.00	1.00	mg/kg	1	LL-SULFUR	

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Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 13:47

120810-99CS-5c
1012140-05 (Drywall)

Prepared: 13-Dec-10 10:26
Analyzed: 15-Dec-10 07:47

Analyte	Result	PQL	MDL	Units	Dilution	Method	Qualifiers
Lakeland Laboratories, LLC							
Elemental Sulfur by HPLC							Batch: B012018
Elemental Sulfur	U	2.00	1.00	mg/kg	1	LL-SULFUR	

LAKELAND LABORATORIES

1910 Harden Boulevard
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Lakeland, FL 33803
(863) 686-4271 Phone
(863) 686-4389 Fax

ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 13:47

Elemental Sulfur by HPLC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012018 - Prep Method: NO PREP											
Blank (B012018-BLK1)			**Prepared: 13-Dec-10 10:26**				**Analyzed: 14-Dec-10 16:52**				
Elemental Sulfur	U	2.00	1.00	mg/kg							
LCS (B012018-BS1)			**Prepared: 13-Dec-10 10:26**				**Analyzed: 14-Dec-10 17:14**				
Elemental Sulfur	134	2.00	1.00	mg/kg	167		80	70-130 %			
Duplicate (B012018-DUP1)	**Source: 1012128-01**		**Prepared: 13-Dec-10 10:26**				**Analyzed: 14-Dec-10 17:56**				
Elemental Sulfur	U	2.00	1.00	mg/kg		U				30	
Duplicate (B012018-DUP2)	**Source: 1012136-02**		**Prepared: 13-Dec-10 10:26**				**Analyzed: 15-Dec-10 00:41**				
Elemental Sulfur	U	2.00	1.00	mg/kg		U				30	
Duplicate (B012018-DUP3)	**Source: 1012142-02**		**Prepared: 13-Dec-10 10:26**				**Analyzed: 15-Dec-10 12:42**				
Elemental Sulfur	U	2.00	1.00	mg/kg		U				30	
Matrix Spike (B012018-MS1)	**Source: 1012128-02**		**Prepared: 13-Dec-10 10:26**				**Analyzed: 14-Dec-10 19:00**				
Elemental Sulfur	130	2.00	1.00	mg/kg	167	U	78	70-130 %			
Matrix Spike (B012018-MS2)	**Source: 1012136-03**		**Prepared: 13-Dec-10 10:26**				**Analyzed: 15-Dec-10 01:23**				
Elemental Sulfur	133	2.00	1.00	mg/kg	167	U	80	70-130 %			
Matrix Spike (B012018-MS3)	**Source: 1012142-03**		**Prepared: 13-Dec-10 10:26**				**Analyzed: 15-Dec-10 13:46**				
Elemental Sulfur	152	2.00	1.00	mg/kg	167	U	91	70-130 %			
Matrix Spike Dup (B012018-MSD1)	**Source: 1012128-02**		**Prepared: 13-Dec-10 10:26**				**Analyzed: 14-Dec-10 19:21**				
Elemental Sulfur	133	2.00	1.00	mg/kg	167	U	80	70-130 %	2	30	
Matrix Spike Dup (B012018-MSD2)	**Source: 1012136-03**		**Prepared: 13-Dec-10 10:26**				**Analyzed: 15-Dec-10 01:45**				
Elemental Sulfur	137	2.00	1.00	mg/kg	167	U	82	70-130 %	3	30	

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Tampa, FL 33610

Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 13:47

Elemental Sulfur by HPLC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012018 - Prep Method: NO PREP											
Matrix Spike Dup (B012018-MSD3)	**Source: 1012142-03**		**Prepared: 13-Dec-10 10:26**			**Analyzed: 15-Dec-10 14:07**					
Elemental Sulfur	148	2.00	1.00	mg/kg	167	U	89	70-130 %	3	30	

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Tampa, FL 33610

Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 13:47

Notes and Definitions

DET	Analyte DETECTED
U	Analyte NOT DETECTED at or above the MDL
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
PQL	Practical Quantitation Limit

Results of liquid samples are reported on a wet-weight basis unless otherwise indicated. Results of solid samples are reported on a dry-weight basis unless otherwise indicated.

ENVIRON #1012140

Chain of Custody

Page 1 of 1

ENVIRON International Corporation
10150 Highlands Manor Drive, Ste 440
Tampa, FL 33610
Tel: 813-628-4325 FAX: 813.628.4983

Project name: Fort Bragg [redacted]
Site Address
Site Owner:
Phase # 2

Date: 12.13.10

Sample ID	Date Collected	Time Collected	Description	Medium	Analysis Requested
120810-99CS-1 a	12/08/10		drywall sample - under stairs closet - west wall	Solid	elemental S
120810-99CS-2a	↓		drywall sample - powder room closet - north wall	↓	elemental S
120810-99CS-3a			drywall sample - family room - west wall		elemental S
120810-99CS-4 d			drywall sample - north bedroom - ~~east~~ south wall		elemental S
120810-99CS-5 c			drywall sample - south bedroom - east wall - upper sheet	↓	elemental S

Shipped to: Lakeland labs

Address: 1910 Harden Blvd Suite 101
Lakeland, FL 33803

Shipment Method: Date:

Tracking number:

Preservation:

Collected by: Name and Date: James L. Poole
Signature: (see original COC)

Comments: Subsamples for lab testing

Relinquished by: Name: Cindy Lyons
Signature: Date: 12-13-10
Time: 10:16

Received by: Name: LUGANGLOFF
Signature: Date: 12-13-10
Time: 10:16

Relinquished by: Name:
Signature: Date:
Time:

Received by: Name:
Signature: Date:
Time:

Relinquished by: Name:
Signature: Date:
Time:

Received by: Name:
Signature: Date:
Time:

ENVIRON

7

January 19, 2011

[redacted]
Chief, Environmental Compliance Branch
Directorate of Public Works
Bldg. 3-1137, Butner Road
Fort Bragg, North Carolina 28310

Via email: [redacted]

RE: [redacted] Fort Bragg, North Carolina 28307

Dear [redacted],

Pursuant to your request, ENVIRON has evaluated this home to determine whether there is evidence in the home of effects from defective gypsum wallboard. ENVIRON's evaluation included:

- the measurement of indoor and outdoor air using a calibrated direct-reading hydrogen sulfide analyzer
- the collection of indoor and outdoor ambient air samples for subsequent laboratory analysis
- examination of the air handler of the HVAC system, copper portions of plumbing and electrical components, including receptacles, switches and exposed copper wiring
- opening walls to inspect for labeling or manufacturing marks on wallboard
- collection of wallboard samples for analysis of elemental sulfur

On December 7, 2010, ENVIRON collected indoor and outdoor ambient air samples for subsequent laboratory analysis (Sample 120710-105MC-11 from the kitchen; Sample 120710-105MC-12 from the master bedroom; and Samples 120710-105MC-10 and 120710-105MC-13 from outdoors). ENVIRON delivered the air samples to Lakeland Labs, LLC, an independent accredited laboratory, which tested the air samples for the presence and concentration of 20 sulfur-containing compounds using American Society for Testing and Materials (ASTM) Method D-5504. As you can see from the attached laboratory results, Lakeland Labs, LLC did not report measureable levels of any of the 20 sulfur compounds. However, the calibrated direct-reading hydrogen sulfide analyzer detected hydrogen sulfide at 4 parts per billion by volume (ppbv) in the dining room and laundry room. These concentrations of hydrogen sulfide are below the 20 ppbv level established for long-term residential exposures by the U.S. Department of Health and Human Services, Agency for Toxic Substances and Disease Registry (ATSDR) Hydrogen sulfide readings in the other seven rooms were similar to levels detected outside of the home.

ENVIRON also inspected copper components associated with the HVAC system and plumbing, as well as electrical components for discoloration and residue characteristic of

corrosion from exposure to defective gypsum wallboard. No black surface accumulations were observed.

ENVIRON cut openings in walls to observe the unpainted side of wallboard for labeling or markings indicative of Chinese-manufactured wallboard. No markings associated with Chinese-manufactured wallboard were found. We did not detect odors characteristic of defective Chinese-manufactured wallboard in the home or while opening walls.

ENVIRON collected and submitted three wallboard samples to Lakeland Labs, LLC for analysis of elemental sulfur content. Elemental sulfur is a particular form of sulfur present at elevated levels in defective wallboard that produces corrosive sulfide gases. Analyzed samples were collected from the north bedroom (120710-105MP-1a), the dining room (120710-105MP-2d), and the laundry room (120710-105MP-3a). The laboratory did not detect elemental sulfur in any of the samples, as shown in the attached report. None of these samples have the chemical composition associated with defective wallboard.

Based on these observations, ENVIRON concludes that there is no evidence of effects from defective wallboard in the subject home. Also, we did not find indications suggesting that the wallboard was manufactured in China. If you have any questions or concerns regarding our evaluation, please do not hesitate to contact us.

Sincerely,

Robert P. DeMott, PhD, DABT
Principal Toxicologist

James L. Poole, PhD, CIH
Principal Industrial Hygienist

Enclosure: Attachment 1, Laboratory Results

ATTACHMENT 1

[redacted]

LABORATORY RESULTS

LAKELAND
LABORATORIES

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(863) 686-4389 Fax

11 December 2010

ENVIRON International Corp.
ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

RE: Fort Bragg - 8 Homes
Project Location: [redacted]

Dear ENVIRON International Corp.:

This report details the analytical results of samples collected at the above-referenced project location as well as the results of any associated quality control samples. These samples were taken into custody by Lakeland Laboratories at **08-Dec-10 07:45.**

The work detailed herein has been conducted in accordance with generally accepted professional standards using recognized testing methodologies and quality control measures. It must be noted that the results detailed within this final report apply only to those samples submitted for analysis and reported here. When the NELAP logo is affixed to this report, these test results meet all requirements of the National Environmental Laboratory Accreditation Conference (NELAC).

Your samples will be retained by Lakeland Laboratories for a period of at least 30 days following sample receipt or until the longest of the preparation and/or analytical hold times expires, whichever is shorter. After that time, they will be properly disposed without further notice, unless there exists an explicit contractual agreement to the contrary. We reserve the right to return any unused samples, extracts, or related materials or solutions to you if we consider it necessary. Examples might include those samples identified as hazardous wastes, submissions where the sample sizes significantly exceed those required for analysis, samples containing controlled substances, etc.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full. We will maintain a copy of this report, electronic or otherwise, in our files for at least five years, after which time it may be destroyed without further notice, unless there exists an explicit contractual agreement to the contrary.

We thank you for selecting Lakeland Laboratories to serve your analytical needs. Should you have any questions or require additional information regarding any of the information in this report, please feel free to contact us at any time. We appreciate the opportunity to be of service.

Sincerely,

Technical Director
Mark Alessandroni

LAKELAND LABORATORIES

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
11-Dec-10 14:42

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
120710-105MP-10	1012073-01	Air	07-Dec-10 12:46	08-Dec-10 07:45
120710-105MP-11	1012073-02	Air	07-Dec-10 12:29	08-Dec-10 07:45
120710-105MP-12	1012073-03	Air	07-Dec-10 12:33	08-Dec-10 07:45
120710-105MP-13	1012073-04	Air	07-Dec-10 12:50	08-Dec-10 07:45

Comments on Sample Receipt:
Samples were delivered via overnight courier (Federal Express Airbill No. 8739 6797 3756) and received in the laboratory at 7:45 AM on December 8, 2010. The samples were analyzed the same day, within the mandated holding time of 24 hours. Unless noted elsewhere in the report, no deviations from the laboratory SOP were made.

Comments on Sample Analyses:
With the exception of two compounds, all compounds fell within acceptance criteria for relative percent difference (precision) and percent recovery (accuracy) in the matrix spike-matrix spike duplicate and blank spike-blank spike duplicate QA pairs. Isopropyl mercaptan exhibited a slightly high bias in the blank spike duplicate and the matrix spike. Diethyl sulfide exhibited a slightly high bias in the blank spike duplicate. A method reporting limit (MRL) standard was run and all target analytes were detected, confirming sensitivity of the analytical system.

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Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
11-Dec-10 14:42

120710-105MP-10
1012073-01 (Air)

Prepared: 08-Dec-10 08:00
Analyzed: 08-Dec-10 09:53

Lakeland Laboratories, LLC

Reduced Sulfur Compounds in Air by GC — Batch: B012010

Analyte	Result	PQL	Units	Dilution	Method	Qualifiers
Hydrogen sulfide	U	5.00	ppbv	1	D5504-08	
Carbonyl Sulfide	U	5.00	ppbv	1	D5504-08	
Methyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Dimethyl Sulfide	U	5.00	ppbv	1	D5504-08	
Carbon Disulfide	U	5.00	ppbv	1	D5504-08	
Isopropyl Mercaptan	U	5.00	ppbv	1	D5504-08	
tert-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Propyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Methyl Sulfide	U	5.00	ppbv	1	D5504-08	
Thiophene	U	5.00	ppbv	1	D5504-08	
Isobutyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Diethyl Sulfide	U	5.00	ppbv	1	D5504-08	
3-Methyl Thiophene	U	5.00	ppbv	1	D5504-08	
Tetrahydrothiophene	U	5.00	ppbv	1	D5504-08	
Dimethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2-Ethyl Thiophene	U	5.00	ppbv	1	D5504-08	
Diethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2,5-Dimethyl Thiophene	U	5.00	ppbv	1	D5504-08	

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Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
11-Dec-10 14:42

120710-105MP-11
1012073-02 (Air)

Prepared: 08-Dec-10 08:00
Analyzed: 08-Dec-10 10:03

Lakeland Laboratories, LLC

Reduced Sulfur Compounds in Air by GC — Batch: B012010

Analyte	Result	PQL	Units	Dilution	Method	Qualifiers
Hydrogen sulfide	U	5.00	ppbv	1	D5504-08	
Carbonyl Sulfide	U	5.00	ppbv	1	D5504-08	
Methyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Dimethyl Sulfide	U	5.00	ppbv	1	D5504-08	
Carbon Disulfide	U	5.00	ppbv	1	D5504-08	
Isopropyl Mercaptan	U	5.00	ppbv	1	D5504-08	
tert-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Propyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Methyl Sulfide	U	5.00	ppbv	1	D5504-08	
Thiophene	U	5.00	ppbv	1	D5504-08	
Isobutyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Diethyl Sulfide	U	5.00	ppbv	1	D5504-08	
3-Methyl Thiophene	U	5.00	ppbv	1	D5504-08	
Tetrahydrothiophene	U	5.00	ppbv	1	D5504-08	
Dimethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2-Ethyl Thiophene	U	5.00	ppbv	1	D5504-08	
Diethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2,5-Dimethyl Thiophene	U	5.00	ppbv	1	D5504-08	

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
11-Dec-10 14:42

120710-105MP-12
1012073-03 (Air)

Prepared: 08-Dec-10 08:00
Analyzed: 08-Dec-10 10:14

Lakeland Laboratories, LLC

Batch: B012010

Reduced Sulfur Compounds in Air by GC

Analyte	Result	PQL	Units	Dilution	Method	Qualifiers
Hydrogen sulfide	U	5.00	ppbv	1	D5504-08	
Carbonyl Sulfide	U	5.00	ppbv	1	D5504-08	
Methyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Dimethyl Sulfide	U	5.00	ppbv	1	D5504-08	
Carbon Disulfide	U	5.00	ppbv	1	D5504-08	
Isopropyl Mercaptan	U	5.00	ppbv	1	D5504-08	
tert-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Propyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Methyl Sulfide	U	5.00	ppbv	1	D5504-08	
Thiophene	U	5.00	ppbv	1	D5504-08	
Isobutyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Diethyl Sulfide	U	5.00	ppbv	1	D5504-08	
3-Methyl Thiophene	U	5.00	ppbv	1	D5504-08	
Tetrahydrothiophene	U	5.00	ppbv	1	D5504-08	
Dimethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2-Ethyl Thiophene	U	5.00	ppbv	1	D5504-08	
Diethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2,5-Dimethyl Thiophene	U	5.00	ppbv	1	D5504-08	

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Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
11-Dec-10 14:42

120710-105MP-13
1012073-04 (Air)

Prepared: 08-Dec-10 08:00
Analyzed: 08-Dec-10 10:26

Lakeland Laboratories, LLC

Reduced Sulfur Compounds in Air by GC — Batch: B012010

Analyte	Result	PQL	Units	Dilution	Method	Qualifiers
Hydrogen sulfide	U	5.00	ppbv	1	D5504-08	
Carbonyl Sulfide	U	5.00	ppbv	1	D5504-08	
Methyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Dimethyl Sulfide	U	5.00	ppbv	1	D5504-08	
Carbon Disulfide	U	5.00	ppbv	1	D5504-08	
Isopropyl Mercaptan	U	5.00	ppbv	1	D5504-08	
tert-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Propyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Methyl Sulfide	U	5.00	ppbv	1	D5504-08	
Thiophene	U	5.00	ppbv	1	D5504-08	
Isobutyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Diethyl Sulfide	U	5.00	ppbv	1	D5504-08	
3-Methyl Thiophene	U	5.00	ppbv	1	D5504-08	
Tetrahydrothiophene	U	5.00	ppbv	1	D5504-08	
Dimethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2-Ethyl Thiophene	U	5.00	ppbv	1	D5504-08	
Diethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2,5-Dimethyl Thiophene	U	5.00	ppbv	1	D5504-08	

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Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
11-Dec-10 14:42

Reduced Sulfur Compounds in Air by GC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012010 - Prep Method: None										
Blank (B012010-BLK1)			**Prepared: 08-Dec-10 08:00**			**Analyzed: 08-Dec-10 09:26**				
Hydrogen sulfide	U	5.00	ppbv							
Carbonyl Sulfide	U	5.00	ppbv							
Methyl Mercaptan	U	5.00	ppbv							
Ethyl Mercaptan	U	5.00	ppbv							
Dimethyl Sulfide	U	5.00	ppbv							
Carbon Disulfide	U	5.00	ppbv							
Isopropyl Mercaptan	U	5.00	ppbv							
tert-Butyl Mercaptan	U	5.00	ppbv							
n-Propyl Mercaptan	U	5.00	ppbv							
Ethyl Methyl Sulfide	U	5.00	ppbv							
Thiophene	U	5.00	ppbv							
Isobutyl Mercaptan	U	5.00	ppbv							
n-Butyl Mercaptan	U	5.00	ppbv							
Diethyl Sulfide	U	5.00	ppbv							
3-Methyl Thiophene	U	5.00	ppbv							
Tetrahydrothiophene	U	5.00	ppbv							
Dimethyl Disulfide	U	5.00	ppbv							
2-Ethyl Thiophene	U	5.00	ppbv							
Diethyl Disulfide	U	5.00	ppbv							
2,5-Dimethyl Thiophene	U	5.00	ppbv							
LCS (B012010-BS1)			**Prepared: 08-Dec-10 08:00**			**Analyzed: 08-Dec-10 09:37**				
Hydrogen sulfide	27.6	5.00	ppbv	25.0		110	63-128 %			
Carbonyl Sulfide	28.0	5.00	ppbv	25.0		112	78-195 %			
Methyl Mercaptan	27.5	5.00	ppbv	25.0		110	58-131 %			
Ethyl Mercaptan	27.2	5.00	ppbv	25.0		109	52-138 %			
Dimethyl Sulfide	27.4	5.00	ppbv	25.0		110	75-118 %			
Carbon Disulfide	27.2	5.00	ppbv	25.0		109	71-186 %			

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ENVIRON International Corp.
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Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
11-Dec-10 14:42

Reduced Sulfur Compounds in Air by GC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012010 - Prep Method: None										
LCS (B012010-BS1)			**Prepared: 08-Dec-10 08:00**				**Analyzed: 08-Dec-10 09:37**			
Isopropyl Mercaptan	27.7	5.00	ppbv	25.0		111	66-117 %			
tert-Butyl Mercaptan	27.2	5.00	ppbv	25.0		109	52-138 %			
n-Propyl Mercaptan	26.9	5.00	ppbv	25.0		108	61-128 %			
Ethyl Methyl Sulfide	28.6	5.00	ppbv	25.0		114	70-123 %			
Thiophene	27.8	5.00	ppbv	25.0		111	69-123 %			
Isobutyl Mercaptan	27.6	5.00	ppbv	25.0		110	57-127 %			
n-Butyl Mercaptan	27.6	5.00	ppbv	25.0		111	74-124 %			
Diethyl Sulfide	27.1	5.00	ppbv	25.0		109	63-116 %			
3-Methyl Thiophene	27.2	5.00	ppbv	25.0		109	72-121 %			
Tetrahydrothiophene	27.8	5.00	ppbv	25.0		111	60-128 %			
Dimethyl Disulfide	29.3	5.00	ppbv	25.0		117	67-124 %			
2-Ethyl Thiophene	28.7	5.00	ppbv	25.0		115	63-131 %			
Diethyl Disulfide	28.5	5.00	ppbv	25.0		114	57-135 %			
2,5-Dimethyl Thiophene	28.2	5.00	ppbv	25.0		113	58-136 %			
LCS Dup (B012010-BSD1)			**Prepared: 08-Dec-10 08:00**				**Analyzed: 08-Dec-10 11:44**			
Hydrogen sulfide	29.0	5.00	ppbv	25.0		116	63-128 %	5	30	
Carbonyl Sulfide	29.7	5.00	ppbv	25.0		119	78-195 %	6	30	
Methyl Mercaptan	28.6	5.00	ppbv	25.0		114	58-131 %	4	30	
Ethyl Mercaptan	28.9	5.00	ppbv	25.0		116	52-138 %	6	30	
Dimethyl Sulfide	27.8	5.00	ppbv	25.0		111	75-118 %	1	30	
Carbon Disulfide	28.7	5.00	ppbv	25.0		115	71-186 %	5	30	
Isopropyl Mercaptan	29.4	5.00	ppbv	25.0		118	66-117 %	6	30	J
tert-Butyl Mercaptan	28.0	5.00	ppbv	25.0		112	52-138 %	3	30	
n-Propyl Mercaptan	28.7	5.00	ppbv	25.0		115	61-128 %	6	30	
Ethyl Methyl Sulfide	28.8	5.00	ppbv	25.0		115	70-123 %	0.7	30	
Thiophene	29.0	5.00	ppbv	25.0		116	69-123 %	4	30	
Isobutyl Mercaptan	29.1	5.00	ppbv	25.0		116	57-127 %	5	30	

LAKELAND LABORATORIES

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
11-Dec-10 14:42

Reduced Sulfur Compounds in Air by GC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012010 - Prep Method: None										
LCS Dup (B012010-BSD1)			**Prepared: 08-Dec-10 08:00**			**Analyzed: 08-Dec-10 11:44**				
n-Butyl Mercaptan	28.7	5.00	ppbv	25.0		115	74-124 %	4	30	
Diethyl Sulfide	29.5	5.00	ppbv	25.0		118	63-116 %	8	30	J
3-Methyl Thiophene	28.4	5.00	ppbv	25.0		114	72-121 %	4	30	
Tetrahydrothiophene	28.8	5.00	ppbv	25.0		115	60-128 %	4	30	
Dimethyl Disulfide	29.9	5.00	ppbv	25.0		120	67-124 %	2	30	
2-Ethyl Thiophene	29.4	5.00	ppbv	25.0		118	63-131 %	2	30	
Diethyl Disulfide	28.9	5.00	ppbv	25.0		116	57-135 %	1	30	
2,5-Dimethyl Thiophene	29.0	5.00	ppbv	25.0		116	58-136 %	3	30	
Duplicate (B012010-DUP1)	**Source: 1012077-04**		**Prepared: 08-Dec-10 08:00**			**Analyzed: 08-Dec-10 13:52**				
Hydrogen sulfide	U	5.00	ppbv		U				30	
Carbonyl Sulfide	U	5.00	ppbv		U				30	
Methyl Mercaptan	U	5.00	ppbv		U				30	
Ethyl Mercaptan	U	5.00	ppbv		U				30	
Dimethyl Sulfide	U	5.00	ppbv		U				30	
Carbon Disulfide	U	5.00	ppbv		U				30	
Isopropyl Mercaptan	U	5.00	ppbv		U				30	
tert-Butyl Mercaptan	U	5.00	ppbv		U				30	
n-Propyl Mercaptan	U	5.00	ppbv		U				30	
Ethyl Methyl Sulfide	U	5.00	ppbv		U				30	
Thiophene	U	5.00	ppbv		U				30	
Isobutyl Mercaptan	U	5.00	ppbv		U				30	
n-Butyl Mercaptan	U	5.00	ppbv		U				30	
Diethyl Sulfide	U	5.00	ppbv		U				30	
3-Methyl Thiophene	U	5.00	ppbv		U				30	
Tetrahydrothiophene	U	5.00	ppbv		U				30	
Dimethyl Disulfide	U	5.00	ppbv		U				30	
2-Ethyl Thiophene	U	5.00	ppbv		U				30	

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10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
11-Dec-10 14:42

Reduced Sulfur Compounds in Air by GC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012010 - Prep Method: None										
Duplicate (B012010-DUP1)	**Source: 1012077-04**	**Prepared: 08-Dec-10 08:00**			**Analyzed: 08-Dec-10 13:52**					
Diethyl Disulfide	U	5.00	ppbv		U				30	
2,5-Dimethyl Thiophene	U	5.00	ppbv		U				30	
Matrix Spike (B012010-MS1)	**Source: 1012077-04**	**Prepared: 08-Dec-10 08:00**			**Analyzed: 08-Dec-10 14:04**					
Hydrogen sulfide	30.7	5.00	ppbv	25.0	U	123	63-128 %			
Carbonyl Sulfide	35.4	5.00	ppbv	25.0	U	142	78-195 %			
Methyl Mercaptan	29.0	5.00	ppbv	25.0	U	116	58-131 %			
Ethyl Mercaptan	29.5	5.00	ppbv	25.0	U	118	52-138 %			
Dimethyl Sulfide	29.4	5.00	ppbv	25.0	U	118	75-118 %			
Carbon Disulfide	34.0	5.00	ppbv	25.0	U	136	71-186 %			
Isopropyl Mercaptan	29.8	5.00	ppbv	25.0	U	119	66-117 %			J
tert-Butyl Mercaptan	29.2	5.00	ppbv	25.0	U	117	52-138 %			
n-Propyl Mercaptan	30.3	5.00	ppbv	25.0	U	121	61-128 %			
Ethyl Methyl Sulfide	29.0	5.00	ppbv	25.0	U	116	70-123 %			
Thiophene	28.2	5.00	ppbv	25.0	U	113	69-123 %			
Isobutyl Mercaptan	29.5	5.00	ppbv	25.0	U	118	57-127 %			
n-Butyl Mercaptan	28.9	5.00	ppbv	25.0	U	116	74-124 %			
Diethyl Sulfide	28.9	5.00	ppbv	25.0	U	115	63-116 %			
3-Methyl Thiophene	27.6	5.00	ppbv	25.0	U	110	72-121 %			
Tetrahydrothiophene	27.1	5.00	ppbv	25.0	U	108	60-128 %			
Dimethyl Disulfide	28.8	5.00	ppbv	25.0	U	115	67-124 %			
2-Ethyl Thiophene	29.4	5.00	ppbv	25.0	U	117	63-131 %			
Diethyl Disulfide	26.6	5.00	ppbv	25.0	U	107	57-135 %			
2,5-Dimethyl Thiophene	27.1	5.00	ppbv	25.0	U	108	58-136 %			
Matrix Spike Dup (B012010-MSD1)	**Source: 1012077-04**	**Prepared: 08-Dec-10 08:00**			**Analyzed: 08-Dec-10 14:24**					
Hydrogen sulfide	29.1	5.00	ppbv	25.0	U	116	63-128 %	5	30	
Carbonyl Sulfide	34.3	5.00	ppbv	25.0	U	137	78-195 %	3	30	

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Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
11-Dec-10 14:42

Reduced Sulfur Compounds in Air by GC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012010 - Prep Method: None										
Matrix Spike Dup (B012010-MSD1)	**Source: 1012077-04**		**Prepared: 08-Dec-10 08:00**			**Analyzed: 08-Dec-10 14:24**				
Methyl Mercaptan	27.7	5.00	ppbv	25.0	U	111	58-131 %	5	30	
Ethyl Mercaptan	28.7	5.00	ppbv	25.0	U	115	52-138 %	3	30	
Dimethyl Sulfide	28.3	5.00	ppbv	25.0	U	113	75-118 %	4	30	
Carbon Disulfide	33.2	5.00	ppbv	25.0	U	133	71-186 %	2	30	
Isopropyl Mercaptan	29.0	5.00	ppbv	25.0	U	116	66-117 %	3	30	
tert-Butyl Mercaptan	28.4	5.00	ppbv	25.0	U	113	52-138 %	3	30	
n-Propyl Mercaptan	29.0	5.00	ppbv	25.0	U	116	61-128 %	4	30	
Ethyl Methyl Sulfide	27.5	5.00	ppbv	25.0	U	110	70-123 %	5	30	
Thiophene	26.9	5.00	ppbv	25.0	U	108	69-123 %	5	30	
Isobutyl Mercaptan	28.9	5.00	ppbv	25.0	U	115	57-127 %	2	30	
n-Butyl Mercaptan	28.0	5.00	ppbv	25.0	U	112	74-124 %	3	30	
Diethyl Sulfide	28.0	5.00	ppbv	25.0	U	112	63-116 %	3	30	
3-Methyl Thiophene	26.6	5.00	ppbv	25.0	U	107	72-121 %	3	30	
Tetrahydrothiophene	25.8	5.00	ppbv	25.0	U	103	60-128 %	5	30	
Dimethyl Disulfide	27.9	5.00	ppbv	25.0	U	111	67-124 %	3	30	
2-Ethyl Thiophene	29.1	5.00	ppbv	25.0	U	116	63-131 %	0.8	30	
Diethyl Disulfide	25.7	5.00	ppbv	25.0	U	103	57-135 %	4	30	
2,5-Dimethyl Thiophene	26.5	5.00	ppbv	25.0	U	106	58-136 %	2	30	

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
11-Dec-10 14:42

Notes and Definitions

J	Estimated Value
DET	Analyte DETECTED
U	Analyte NOT DETECTED at or above the MDL
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
PQL	Practical Quantitation Limit

Results of liquid samples are reported on a wet-weight basis unless otherwise indicated. Results of solid samples are reported on a dry-weight basis unless otherwise indicated.

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PHONE: (863) 686-4271 FAX: (863) 686-4389

Work Order # 1012073

Chain of Custody Record

Company: ENVIRON International Corp.	Project Name: FORT BRAGG - 8 HOMES	Page 1 of 1
Address: 10150 Highland Manor Drive, Suite 440, Tampa, FL 33610	Project #:	DEP Form #: 62-770.900(2)
	Project Manager: James L. Poole, PhD, CIH	Form Title: Chain of Custody Record
	Project Location: [redacted]	Effective Date: September 23, 1997
Phone: (813) 628-4325 Fax: (813) 628-4983	P. O. #:	FDEP Facility No.:
Sampled by [Print Name(s)] / Affiliation: Nita Singh, James L. Poole, PhD, CIH/ENVIRON	Preservatives (see codes)	Project Name:
Sampler(s) Signature(s)	Analyses Requested	REQUESTED DUE DATE / /

Item No.	Field ID No.	Sampled Date	Sampled Time	Grab or Composite	Matrix (see codes)	Number of Containers	ASTM D5504-08	Remarks	Lab. No.
1	120710-105MP-10	12/07/2010	1246	G	A	1	X	Outdoor front	001
2	120710-105MP-11		1229	G	A	1	X	Kitchen	002
3	120710-105MP-12		1253	G	A	1	X	master bedroom	003
4	120710-105MP-13	↓	1250	G	A	1	X	outdoor rear	004

<= Total Number of Containers

Shipment Method		Item No.	Relinquished by / Affiliation	Date	Time	Accepted by / Affiliation	Date	Time
Out: / /	Via:	1-4	ENVIRON	12/07/2010	1500	FEDEX 8739 6797 3756 LL	12-7-10	1800
Returned: / /	Via:	1-4	FEDEX 8739 6797 3756	12-8-10	0745		12-8-10	0745
Additional Comments:								

Cooler No.(s) / Temperature(s) (°C)	Sampling Kit No.	Equipment ID No.
Ambient °C		

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) O = Other (specify)

PRESERVATIVE CODES: H = Hydrochloric acid + ice I = Ice only N = Nitric acid + ice S = Sulfuric acid + ice O = Other (specify)

LAKELAND LABORATORIES

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16 December 2010

ENVIRON International Corp.
ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

RE: **Fort Bragg -**
Project Location: [redacted] **Fort Bragg, NC 28307**

Dear ENVIRON International Corp.:

This report details the analytical results of samples collected at the above-referenced project location as well as the results of any associated quality control samples. These samples were taken into custody by Lakeland Laboratories at **13-Dec-10 10:16.**

The work detailed herein has been conducted in accordance with generally accepted professional standards using recognized testing methodologies and quality control measures. It must be noted that the results detailed within this final report apply only to those samples submitted for analysis and reported here. When the NELAP logo is affixed to this report, these test results meet all requirements of the National Environmental Laboratory Accreditation Conference (NELAC).

Your samples will be retained by Lakeland Laboratories for a period of at least 30 days following sample receipt or until the longest of the preparation and/or analytical hold times expires, whichever is shorter. After that time, they will be properly disposed without further notice, unless there exists an explicit contractual agreement to the contrary. We reserve the right to return any unused samples, extracts, or related materials or solutions to you if we consider it necessary. Examples might include those samples identified as hazardous wastes, submissions where the sample sizes significantly exceed those required for analysis, samples containing controlled substances, etc.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full. We will maintain a copy of this report, electronic or otherwise, in our files for at least five years, after which time it may be destroyed without further notice, unless there exists an explicit contractual agreement to the contrary.

We thank you for selecting Lakeland Laboratories to serve your analytical needs. Should you have any questions or require additional information regarding any of the information in this report, please feel free to contact us at any time. We appreciate the opportunity to be of service.

Sincerely,

Technical Director
Jim Crawford For Mark Alessandroni

LAKELAND LABORATORIES

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ENVIRON International Corp.
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Tampa, FL 33610

Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted] - Fort Bragg, NC 28307
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 14:04

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
120710-105MP-1a	1012146-01	Drywall	10-Dec-10 00:00	13-Dec-10 10:16
120710-105MP-2d	1012146-02	Drywall	10-Dec-10 00:00	13-Dec-10 10:16
120710-105MP-3a	1012146-03	Drywall	10-Dec-10 00:00	13-Dec-10 10:16

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Tampa, FL 33610

Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted] Fort Bragg, NC 28307
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 14:04

120710-105MP-1a
1012146-01 (Drywall)

Prepared: 13-Dec-10 10:26
Analyzed: 15-Dec-10 17:40

Analyte	Result	PQL	MDL	Units	Dilution	Method	Qualifiers
Lakeland Laboratories, LLC							
Elemental Sulfur by HPLC							Batch: B012018
Elemental Sulfur	U	2.00	1.00	mg/kg	1	LL-SULFUR	

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10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted] Fort Bragg, NC 28307
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 14:04

120710-105MP-2d
1012146-02 (Drywall)

Prepared: 13-Dec-10 10:26
Analyzed: 15-Dec-10 18:01

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Dilution	Method	Qualifiers
Elemental Sulfur by HPLC							Batch: B012018
Elemental Sulfur	U	2.00	1.00	mg/kg	1	LL-SULFUR	

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Tampa, FL 33610

Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted] Fort Bragg, NC 28307
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 14:04

120710-105MP-3a
1012146-03 (Drywall)

Prepared: 13-Dec-10 10:26
Analyzed: 15-Dec-10 18:23

Analyte	Result	PQL	MDL	Units	Dilution	Method	Qualifiers
Lakeland Laboratories, LLC							
Elemental Sulfur by HPLC							Batch: B012018
Elemental Sulfur	U	2.00	1.00	mg/kg	1	LL-SULFUR	

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Tampa, FL 33610

Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted] Fort Bragg, NC 28307
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 14:04

Elemental Sulfur by HPLC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012018 - Prep Method: NO PREP											
Blank (B012018-BLK1)			**Prepared: 13-Dec-10 10:26**			**Analyzed: 14-Dec-10 16:52**					
Elemental Sulfur	U	2.00	1.00	mg/kg							
LCS (B012018-BS1)			**Prepared: 13-Dec-10 10:26**			**Analyzed: 14-Dec-10 17:14**					
Elemental Sulfur	134	2.00	1.00	mg/kg	167		80	70-130 %			
Duplicate (B012018-DUP1)	**Source: 1012128-01**		**Prepared: 13-Dec-10 10:26**			**Analyzed: 14-Dec-10 17:56**					
Elemental Sulfur	U	2.00	1.00	mg/kg		U				30	
Duplicate (B012018-DUP2)	**Source: 1012136-02**		**Prepared: 13-Dec-10 10:26**			**Analyzed: 15-Dec-10 00:41**					
Elemental Sulfur	U	2.00	1.00	mg/kg		U				30	
Duplicate (B012018-DUP3)	**Source: 1012142-02**		**Prepared: 13-Dec-10 10:26**			**Analyzed: 15-Dec-10 12:42**					
Elemental Sulfur	U	2.00	1.00	mg/kg		U				30	
Matrix Spike (B012018-MS1)	**Source: 1012128-02**		**Prepared: 13-Dec-10 10:26**			**Analyzed: 14-Dec-10 19:00**					
Elemental Sulfur	130	2.00	1.00	mg/kg	167	U	78	70-130 %			
Matrix Spike (B012018-MS2)	**Source: 1012136-03**		**Prepared: 13-Dec-10 10:26**			**Analyzed: 15-Dec-10 01:23**					
Elemental Sulfur	133	2.00	1.00	mg/kg	167	U	80	70-130 %			
Matrix Spike (B012018-MS3)	**Source: 1012142-03**		**Prepared: 13-Dec-10 10:26**			**Analyzed: 15-Dec-10 13:46**					
Elemental Sulfur	152	2.00	1.00	mg/kg	167	U	91	70-130 %			
Matrix Spike Dup (B012018-MSD1)	**Source: 1012128-02**		**Prepared: 13-Dec-10 10:26**			**Analyzed: 14-Dec-10 19:21**					
Elemental Sulfur	133	2.00	1.00	mg/kg	167	U	80	70-130 %	2	30	
Matrix Spike Dup (B012018-MSD2)	**Source: 1012136-03**		**Prepared: 13-Dec-10 10:26**			**Analyzed: 15-Dec-10 01:45**					
Elemental Sulfur	137	2.00	1.00	mg/kg	167	U	82	70-130 %	3	30	

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Tampa, FL 33610

Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted]- Fort Bragg, NC 28307
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 14:04

Elemental Sulfur by HPLC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012018 - Prep Method: NO PREP											
Matrix Spike Dup (B012018-MSD3)	**Source: 1012142-03**		**Prepared: 13-Dec-10 10:26**			**Analyzed: 15-Dec-10 14:07**					
Elemental Sulfur	148	2.00	1.00	mg/kg	167	U	89	70-130 %	3	30	

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Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted] Fort Bragg, NC 28307
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 14:04

Notes and Definitions

DET	Analyte DETECTED
U	Analyte NOT DETECTED at or above the MDL
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
PQL	Practical Quantitation Limit

Results of liquid samples are reported on a wet-weight basis unless otherwise indicated. Results of solid samples are reported on a dry-weight basis unless otherwise indicated.

ENVIRON #1012146

Chain of Custody

Page 1 of 1

ENVIRON International Corporation
10150 Highlands Manor Drive, Ste 440
Tampa, FL 33610
Tel: 813-628-4325 FAX: 813.628.4983

Project name: Fort Bragg ([redacted])
Site Address [redacted] Fort Bragg, NC 28307
Site Owner:
Phase # 2

Date: 12.10.10

Sample ID	Date Collected	Time Collected	Description	Medium	Analysis Requested
120710-105MP-1a	12.10.10		drywall sample - northbedroom - west wall - lower sheet	solid	elemental S
120710-105MP-2a	↓		drywall sample - dining room - east wall upper wall	↓	elemental S
120710-105MP-3a			drywall sample - laundry room - north wall - lower sheet	↓	elemental S
subsample					

Shipped to: Lakeland Labs
Address: 1910 Harden Blvd Suite 101, Lakeland, FL 33803

Shipment Method:
Tracking number:
Preservation:
Date:

Collected by: Name and Date: James L. Poole 12.07.10
Signature: (see original COC)

Comments: sub sampled for testing

Relinquished by: Signature:
Name: Cindy Lyons
Date: ~~12-07~~ 12-13-10
Time: 10:16

Received by: Signature:
Name: W GANG/OFF
Date: 12-13-10
Time: 1016

Relinquished by: Signature:
Name:
Date:
Time:

Received by: Signature:
Name:
Date:
Time:

Relinquished by: Signature:
Name:
Date:
Time:

Received by: Signature:
Name:
Date:
Time:

8

ENVIRON

January 19, 2011

[redacted]
Chief, Environmental Compliance Branch
Directorate of Public Works
Bldg. 3-1137, Butner Road
Fort Bragg, North Carolina 28310

Via email: [redacted]@us.army.mil

RE: [redacted] Fort Bragg, North Carolina 28307

Dear [redacted],

Pursuant to your request, ENVIRON has evaluated this home to determine whether there is evidence in the home of effects from defective gypsum wallboard. ENVIRON's evaluation included:

- the measurement of indoor and outdoor air using a calibrated direct-reading hydrogen sulfide analyzer
- the collection of indoor and outdoor ambient air samples for subsequent laboratory analysis
- examination of copper portions of plumbing and electrical components, including receptacles, switches and exposed copper wiring
- opening walls to inspect for labeling or manufacturing marks on wallboard
- collection of wallboard samples for analysis of elemental sulfur

On December 8, 2010, ENVIRON collected indoor and outdoor ambient air samples for subsequent laboratory analysis (Sample 120810-112LD-10 from the kitchen; Sample 120810-112LD-11 from the master bedroom; and Samples 120810-112LD-12 and 120810-112LD-13 from outdoors). ENVIRON delivered the air samples to Lakeland Labs, LLC, an independent accredited laboratory, which tested the air samples for the presence and concentration of 20 sulfur-containing compounds using American Society for Testing and Materials (ASTM) Method D-5504. As you can see from the attached laboratory results, Lakeland Labs, LLC did not report measureable levels of any of the 20 sulfur compounds. In addition, the calibrated direct-reading hydrogen sulfide analyzer detected no indoor concentrations of hydrogen sulfide above the levels detected outside of the home.

ENVIRON also inspected copper components associated with plumbing, as well as electrical components for discoloration and residue characteristic of corrosion from exposure to defective gypsum wallboard. No black surface accumulations were observed.

ENVIRON cut openings in walls to observe the unpainted side of wallboard for labeling or markings indicative of Chinese-manufactured wallboard. No markings associated with Chinese-manufactured wallboard were found. We did not detect odors characteristic of defective Chinese-manufactured wallboard in the home or while opening walls.

ENVIRON collected and submitted two wallboard samples to Lakeland Labs, LLC for analysis of elemental sulfur content. Elemental sulfur is a particular form of sulfur present at elevated levels in defective wallboard that produces corrosive sulfide gases. Analyzed samples were collected from the west bedroom (120810-112LD-1a) and the living room (120810-112LD-2a). The laboratory did not detect elemental sulfur in any of the samples, as shown in the attached report. None of these samples have the chemical composition associated with defective wallboard.

Based on these observations, ENVIRON concludes that there is no evidence of effects from defective wallboard in the subject home. Also, we did not find indications suggesting that the wallboard was manufactured in China. If you have any questions or concerns regarding our evaluation, please do not hesitate to contact us.

Sincerely,

Robert P. DeMott, PhD, DABT
Principal Toxicologist

James L. Poole, PhD, CIH
Principal Industrial Hygienist

Enclosure: Attachment 1, Laboratory Results

ATTACHMENT 1

[redacted]

LABORATORY RESULTS

LAKELAND
LABORATORIES

1910 Harden Boulevard
Suite 101
Lakeland, FL 33803
(863) 686-4271 Phone
(863) 686-4389 Fax

12 December 2010

ENVIRON International Corp.
ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

RE: Fort Bragg - 8 Homes
Project Location: [redacted]

Dear ENVIRON International Corp.:

This report details the analytical results of samples collected at the above-referenced project location as well as the results of any associated quality control samples. These samples were taken into custody by Lakeland Laboratories at **09-Dec-10 08:10.**

The work detailed herein has been conducted in accordance with generally accepted professional standards using recognized testing methodologies and quality control measures. It must be noted that the results detailed within this final report apply only to those samples submitted for analysis and reported here. When the NELAP logo is affixed to this report, these test results meet all requirements of the National Environmental Laboratory Accreditation Conference (NELAC).

Your samples will be retained by Lakeland Laboratories for a period of at least 30 days following sample receipt or until the longest of the preparation and/or analytical hold times expires, whichever is shorter. After that time, they will be properly disposed without further notice, unless there exists an explicit contractual agreement to the contrary. We reserve the right to return any unused samples, extracts, or related materials or solutions to you if we consider it necessary. Examples might include those samples identified as hazardous wastes, submissions where the sample sizes significantly exceed those required for analysis, samples containing controlled substances, etc.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full. We will maintain a copy of this report, electronic or otherwise, in our files for at least five years, after which time it may be destroyed without further notice, unless there exists an explicit contractual agreement to the contrary.

We thank you for selecting Lakeland Laboratories to serve your analytical needs. Should you have any questions or require additional information regarding any of the information in this report, please feel free to contact us at any time. We appreciate the opportunity to be of service.

Sincerely,

Technical Director
Mark Alessandroni

LAKELAND LABORATORIES

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(863) 686-4389 Fax

ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:59

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
120810-112LD-10	1012098-01	Air	08-Dec-10 15:45	09-Dec-10 08:10
120810-112LD-11	1012098-02	Air	08-Dec-10 15:50	09-Dec-10 08:10
120810-112LD-12	1012098-03	Air	08-Dec-10 15:55	09-Dec-10 08:10
120810-112LD-13	1012098-04	Air	08-Dec-10 16:00	09-Dec-10 08:10

Comments on Sample Receipt:
Samples were delivered via overnight courier (Federal Express Airbill No. 8728 6310 3591) and received in the laboratory at 8:10 AM on December 9, 2010. The samples were analyzed the same day, within the mandated holding time of 24 hours. Unless noted elsewhere in the report, no deviations from the laboratory SOP were made.

Comments on Sample Analyses:
The analytical system exhibited a high bias for all but two compounds (carbonyl sulfide and carbon disulfide) in the matrix spike-matrix spike duplicate and the blank spike-blank spike duplicate QA pairs. All compounds met criteria in both QA pairs for relative percent difference (precision). Due to the short holding time for these samples and the logistical impracticability of recalibrating the system or re-analyzing these samples within the 24-hour hold time, results are reported here appropriately flagged. A high bias in the analytical system is indicative of increased sensitivity and elevated response for compounds that under normal circumstances might not exceed practical quantitation limits (PQLs). Because none of the target analytes exhibiting a high bias were detected in any of the samples above the PQL, impacts to data validity are not expected to be significant. A method reporting limit (MRL) standard was run at the end of the analytical sequence, confirming sensitivity of the analytical system.

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Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:59

120810-112LD-10
1012098-01 (Air)

Prepared: 09-Dec-10 09:00
Analyzed: 09-Dec-10 14:31

Lakeland Laboratories, LLC

Reduced Sulfur Compounds in Air by GC — Batch: B012012

Analyte	Result	PQL	Units	Dilution	Method	Qualifiers
Hydrogen sulfide	U	5.00	ppbv	1	D5504-08	
Carbonyl Sulfide	U	5.00	ppbv	1	D5504-08	
Methyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Dimethyl Sulfide	U	5.00	ppbv	1	D5504-08	
Carbon Disulfide	U	5.00	ppbv	1	D5504-08	
Isopropyl Mercaptan	U	5.00	ppbv	1	D5504-08	
tert-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Propyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Methyl Sulfide	U	5.00	ppbv	1	D5504-08	
Thiophene	U	5.00	ppbv	1	D5504-08	
Isobutyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Diethyl Sulfide	U	5.00	ppbv	1	D5504-08	
3-Methyl Thiophene	U	5.00	ppbv	1	D5504-08	
Tetrahydrothiophene	U	5.00	ppbv	1	D5504-08	
Dimethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2-Ethyl Thiophene	U	5.00	ppbv	1	D5504-08	
Diethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2,5-Dimethyl Thiophene	U	5.00	ppbv	1	D5504-08	

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Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:59

120810-112LD-11
1012098-02 (Air)

Prepared: 09-Dec-10 09:00
Analyzed: 09-Dec-10 14:42

Lakeland Laboratories, LLC

Reduced Sulfur Compounds in Air by GC — Batch: B012012

Analyte	Result	PQL	Units	Dilution	Method	Qualifiers
Hydrogen sulfide	U	5.00	ppbv	1	D5504-08	
Carbonyl Sulfide	U	5.00	ppbv	1	D5504-08	
Methyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Dimethyl Sulfide	U	5.00	ppbv	1	D5504-08	
Carbon Disulfide	U	5.00	ppbv	1	D5504-08	
Isopropyl Mercaptan	U	5.00	ppbv	1	D5504-08	
tert-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Propyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Methyl Sulfide	U	5.00	ppbv	1	D5504-08	
Thiophene	U	5.00	ppbv	1	D5504-08	
Isobutyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Diethyl Sulfide	U	5.00	ppbv	1	D5504-08	
3-Methyl Thiophene	U	5.00	ppbv	1	D5504-08	
Tetrahydrothiophene	U	5.00	ppbv	1	D5504-08	
Dimethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2-Ethyl Thiophene	U	5.00	ppbv	1	D5504-08	
Diethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2,5-Dimethyl Thiophene	U	5.00	ppbv	1	D5504-08	

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:59

120810-112LD-12
1012098-03 (Air)

Prepared: 09-Dec-10 09:00
Analyzed: 09-Dec-10 14:54

Lakeland Laboratories, LLC

Reduced Sulfur Compounds in Air by GC — Batch: B012012

Analyte	Result	PQL	Units	Dilution	Method	Qualifiers
Hydrogen sulfide	U	5.00	ppbv	1	D5504-08	
Carbonyl Sulfide	U	5.00	ppbv	1	D5504-08	
Methyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Dimethyl Sulfide	U	5.00	ppbv	1	D5504-08	
Carbon Disulfide	U	5.00	ppbv	1	D5504-08	
Isopropyl Mercaptan	U	5.00	ppbv	1	D5504-08	
tert-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Propyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Methyl Sulfide	U	5.00	ppbv	1	D5504-08	
Thiophene	U	5.00	ppbv	1	D5504-08	
Isobutyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Diethyl Sulfide	U	5.00	ppbv	1	D5504-08	
3-Methyl Thiophene	U	5.00	ppbv	1	D5504-08	
Tetrahydrothiophene	U	5.00	ppbv	1	D5504-08	
Dimethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2-Ethyl Thiophene	U	5.00	ppbv	1	D5504-08	
Diethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2,5-Dimethyl Thiophene	U	5.00	ppbv	1	D5504-08	

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Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:59

120810-112LD-13
1012098-04 (Air)

Prepared: 09-Dec-10 09:00
Analyzed: 09-Dec-10 15:07

Lakeland Laboratories, LLC

Reduced Sulfur Compounds in Air by GC — Batch: B012012

Analyte	Result	PQL	Units	Dilution	Method	Qualifiers
Hydrogen sulfide	U	5.00	ppbv	1	D5504-08	
Carbonyl Sulfide	U	5.00	ppbv	1	D5504-08	
Methyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Dimethyl Sulfide	U	5.00	ppbv	1	D5504-08	
Carbon Disulfide	U	5.00	ppbv	1	D5504-08	
Isopropyl Mercaptan	U	5.00	ppbv	1	D5504-08	
tert-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Propyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Methyl Sulfide	U	5.00	ppbv	1	D5504-08	
Thiophene	U	5.00	ppbv	1	D5504-08	
Isobutyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Diethyl Sulfide	U	5.00	ppbv	1	D5504-08	
3-Methyl Thiophene	U	5.00	ppbv	1	D5504-08	
Tetrahydrothiophene	U	5.00	ppbv	1	D5504-08	
Dimethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2-Ethyl Thiophene	U	5.00	ppbv	1	D5504-08	
Diethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2,5-Dimethyl Thiophene	U	5.00	ppbv	1	D5504-08	

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Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:59

Reduced Sulfur Compounds in Air by GC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012012 - Prep Method: None										
Blank (B012012-BLK1)		**Prepared: 09-Dec-10 06:30**		**Analyzed: 09-Dec-10 06:49**						
Hydrogen sulfide	U	5.00	ppbv							
Carbonyl Sulfide	U	5.00	ppbv							
Methyl Mercaptan	U	5.00	ppbv							
Ethyl Mercaptan	U	5.00	ppbv							
Dimethyl Sulfide	U	5.00	ppbv							
Carbon Disulfide	U	5.00	ppbv							
Isopropyl Mercaptan	U	5.00	ppbv							
tert-Butyl Mercaptan	U	5.00	ppbv							
n-Propyl Mercaptan	U	5.00	ppbv							
Ethyl Methyl Sulfide	U	5.00	ppbv							
Thiophene	U	5.00	ppbv							
Isobutyl Mercaptan	U	5.00	ppbv							
n-Butyl Mercaptan	U	5.00	ppbv							
Diethyl Sulfide	U	5.00	ppbv							
3-Methyl Thiophene	U	5.00	ppbv							
Tetrahydrothiophene	U	5.00	ppbv							
Dimethyl Disulfide	U	5.00	ppbv							
2-Ethyl Thiophene	U	5.00	ppbv							
Diethyl Disulfide	U	5.00	ppbv							
2,5-Dimethyl Thiophene	U	5.00	ppbv							
LCS (B012012-BS1)		**Prepared: 09-Dec-10 06:30**		**Analyzed: 09-Dec-10 07:00**						
Hydrogen sulfide	31.7	5.00	ppbv	25.0		127	63-128 %			
Carbonyl Sulfide	32.6	5.00	ppbv	25.0		130	78-195 %			
Methyl Mercaptan	29.8	5.00	ppbv	25.0		119	58-131 %			
Ethyl Mercaptan	29.9	5.00	ppbv	25.0		120	52-138 %			
Dimethyl Sulfide	30.3	5.00	ppbv	25.0		121	75-118 %			J
Carbon Disulfide	28.4	5.00	ppbv	25.0		114	71-186 %			

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ENVIRON International Corp.
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Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:59

Reduced Sulfur Compounds in Air by GC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012012 - Prep Method: None										
LCS (B012012-BS1)			**Prepared: 09-Dec-10 06:30**			**Analyzed: 09-Dec-10 07:00**				
Isopropyl Mercaptan	29.5	5.00	ppbv	25.0		118	66-117 %			J
tert-Butyl Mercaptan	29.1	5.00	ppbv	25.0		116	52-138 %			
n-Propyl Mercaptan	28.1	5.00	ppbv	25.0		113	61-128 %			
Ethyl Methyl Sulfide	29.2	5.00	ppbv	25.0		117	70-123 %			
Thiophene	28.5	5.00	ppbv	25.0		114	69-123 %			
Isobutyl Mercaptan	29.6	5.00	ppbv	25.0		118	57-127 %			
n-Butyl Mercaptan	29.3	5.00	ppbv	25.0		117	74-124 %			
Diethyl Sulfide	30.2	5.00	ppbv	25.0		121	63-116 %			J
3-Methyl Thiophene	28.7	5.00	ppbv	25.0		115	72-121 %			
Tetrahydrothiophene	29.7	5.00	ppbv	25.0		119	60-128 %			
Dimethyl Disulfide	29.6	5.00	ppbv	25.0		118	67-124 %			
2-Ethyl Thiophene	30.4	5.00	ppbv	25.0		122	63-131 %			
Diethyl Disulfide	28.9	5.00	ppbv	25.0		116	57-135 %			
2,5-Dimethyl Thiophene	29.9	5.00	ppbv	25.0		120	58-136 %			
LCS Dup (B012012-BSD1)			**Prepared: 09-Dec-10 06:30**			**Analyzed: 09-Dec-10 11:22**				
Hydrogen sulfide	36.6	5.00	ppbv	25.0		147	63-128 %	14	30	J
Carbonyl Sulfide	37.8	5.00	ppbv	25.0		151	78-195 %	15	30	
Methyl Mercaptan	35.6	5.00	ppbv	25.0		142	58-131 %	18	30	J
Ethyl Mercaptan	36.0	5.00	ppbv	25.0		144	52-138 %	18	30	J
Dimethyl Sulfide	35.8	5.00	ppbv	25.0		143	75-118 %	16	30	J
Carbon Disulfide	35.5	5.00	ppbv	25.0		142	71-186 %	22	30	
Isopropyl Mercaptan	36.5	5.00	ppbv	25.0		146	66-117 %	21	30	J
tert-Butyl Mercaptan	36.6	5.00	ppbv	25.0		147	52-138 %	23	30	J
n-Propyl Mercaptan	35.3	5.00	ppbv	25.0		141	61-128 %	23	30	J
Ethyl Methyl Sulfide	36.8	5.00	ppbv	25.0		147	70-123 %	23	30	J
Thiophene	34.6	5.00	ppbv	25.0		138	69-123 %	19	30	J
Isobutyl Mercaptan	37.2	5.00	ppbv	25.0		149	57-127 %	23	30	J

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:59

Reduced Sulfur Compounds in Air by GC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012012 - Prep Method: None										
LCS Dup (B012012-BSD1)			**Prepared:**	**09-Dec-10 06:30**		**Analyzed:**	**09-Dec-10 11:22**			
n-Butyl Mercaptan	36.5	5.00	ppbv	25.0		146	74-124 %	22	30	J
Diethyl Sulfide	36.3	5.00	ppbv	25.0		145	63-116 %	18	30	J
3-Methyl Thiophene	35.4	5.00	ppbv	25.0		142	72-121 %	21	30	J
Tetrahydrothiophene	34.7	5.00	ppbv	25.0		139	60-128 %	15	30	J
Dimethyl Disulfide	36.0	5.00	ppbv	25.0		144	67-124 %	20	30	J
2-Ethyl Thiophene	35.9	5.00	ppbv	25.0		144	63-131 %	17	30	J
Diethyl Disulfide	34.3	5.00	ppbv	25.0		137	57-135 %	17	30	J
2,5-Dimethyl Thiophene	34.1	5.00	ppbv	25.0		136	58-136 %	13	30	
Duplicate (B012012-DUP1)	**Source: 1012089-01**		**Prepared:**	**09-Dec-10 06:30**		**Analyzed:**	**09-Dec-10 07:28**			
Hydrogen sulfide	U	5.00	ppbv		U				30	
Carbonyl Sulfide	U	5.00	ppbv		U				30	
Methyl Mercaptan	U	5.00	ppbv		U				30	
Ethyl Mercaptan	U	5.00	ppbv		U				30	
Dimethyl Sulfide	U	5.00	ppbv		U				30	
Carbon Disulfide	U	5.00	ppbv		U				30	
Isopropyl Mercaptan	U	5.00	ppbv		U				30	
tert-Butyl Mercaptan	U	5.00	ppbv		U				30	
n-Propyl Mercaptan	U	5.00	ppbv		U				30	
Ethyl Methyl Sulfide	U	5.00	ppbv		U				30	
Thiophene	U	5.00	ppbv		U				30	
Isobutyl Mercaptan	U	5.00	ppbv		U				30	
n-Butyl Mercaptan	U	5.00	ppbv		U				30	
Diethyl Sulfide	U	5.00	ppbv		U				30	
3-Methyl Thiophene	U	5.00	ppbv		U				30	
Tetrahydrothiophene	U	5.00	ppbv		U				30	
Dimethyl Disulfide	U	5.00	ppbv		U				30	
2-Ethyl Thiophene	U	5.00	ppbv		U				30	

LAKELAND LABORATORIES

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(863) 686-4389 Fax

ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:59

Reduced Sulfur Compounds in Air by GC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012012 - Prep Method: None										
Duplicate (B012012-DUP1)	**Source: 1012089-01**	**Prepared: 09-Dec-10 06:30**			**Analyzed: 09-Dec-10 07:28**					
Diethyl Disulfide	U	5.00	ppbv		U				30	
2,5-Dimethyl Thiophene	U	5.00	ppbv		U				30	
Matrix Spike (B012012-MS1)	**Source: 1012089-01**	**Prepared: 09-Dec-10 06:30**			**Analyzed: 09-Dec-10 07:39**					
Hydrogen sulfide	35.2	5.00	ppbv	25.0	U	141	63-128 %			J
Carbonyl Sulfide	35.5	5.00	ppbv	25.0	U	142	78-195 %			
Methyl Mercaptan	32.7	5.00	ppbv	25.0	U	131	58-131 %			
Ethyl Mercaptan	32.9	5.00	ppbv	25.0	U	131	52-138 %			
Dimethyl Sulfide	32.6	5.00	ppbv	25.0	U	131	75-118 %			J
Carbon Disulfide	36.4	5.00	ppbv	25.0	U	146	71-186 %			
Isopropyl Mercaptan	32.4	5.00	ppbv	25.0	U	130	66-117 %			J
tert-Butyl Mercaptan	33.4	5.00	ppbv	25.0	U	134	52-138 %			
n-Propyl Mercaptan	34.5	5.00	ppbv	25.0	U	138	61-128 %			J
Ethyl Methyl Sulfide	31.7	5.00	ppbv	25.0	U	127	70-123 %			J
Thiophene	31.4	5.00	ppbv	25.0	U	126	69-123 %			J
Isobutyl Mercaptan	33.7	5.00	ppbv	25.0	U	135	57-127 %			J
n-Butyl Mercaptan	32.7	5.00	ppbv	25.0	U	131	74-124 %			J
Diethyl Sulfide	33.1	5.00	ppbv	25.0	U	132	63-116 %			J
3-Methyl Thiophene	31.6	5.00	ppbv	25.0	U	126	72-121 %			J
Tetrahydrothiophene	31.0	5.00	ppbv	25.0	U	124	60-128 %			
Dimethyl Disulfide	32.1	5.00	ppbv	25.0	U	128	67-124 %			J
2-Ethyl Thiophene	32.8	5.00	ppbv	25.0	U	131	63-131 %			
Diethyl Disulfide	30.7	5.00	ppbv	25.0	U	123	57-135 %			
2,5-Dimethyl Thiophene	32.8	5.00	ppbv	25.0	U	131	58-136 %			
Matrix Spike Dup (B012012-MSD1)	**Source: 1012089-01**	**Prepared: 09-Dec-10 06:30**			**Analyzed: 09-Dec-10 07:55**					
Hydrogen sulfide	33.8	5.00	ppbv	25.0	U	135	63-128 %	4	30	J
Carbonyl Sulfide	36.5	5.00	ppbv	25.0	U	146	78-195 %	3	30	

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Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:59

Reduced Sulfur Compounds in Air by GC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012012 - Prep Method: None										
Matrix Spike Dup (B012012-MSD1)	**Source: 1012089-01**	**Prepared: 09-Dec-10 06:30**			**Analyzed: 09-Dec-10 07:55**					
Methyl Mercaptan	32.6	5.00	ppbv	25.0	U	130	58-131 %	0.5	30	
Ethyl Mercaptan	32.8	5.00	ppbv	25.0	U	131	52-138 %	0.3	30	
Dimethyl Sulfide	32.8	5.00	ppbv	25.0	U	131	75-118 %	0.5	30	J
Carbon Disulfide	35.8	5.00	ppbv	25.0	U	143	71-186 %	2	30	
Isopropyl Mercaptan	32.4	5.00	ppbv	25.0	U	130	66-117 %	0.02	30	J
tert-Butyl Mercaptan	33.1	5.00	ppbv	25.0	U	132	52-138 %	0.8	30	
n-Propyl Mercaptan	32.8	5.00	ppbv	25.0	U	131	61-128 %	5	30	J
Ethyl Methyl Sulfide	31.3	5.00	ppbv	25.0	U	125	70-123 %	1	30	J
Thiophene	31.2	5.00	ppbv	25.0	U	125	69-123 %	0.6	30	J
Isobutyl Mercaptan	31.9	5.00	ppbv	25.0	U	128	57-127 %	5	30	J
n-Butyl Mercaptan	31.5	5.00	ppbv	25.0	U	126	74-124 %	4	30	J
Diethyl Sulfide	31.6	5.00	ppbv	25.0	U	126	63-116 %	5	30	J
3-Methyl Thiophene	31.4	5.00	ppbv	25.0	U	126	72-121 %	0.5	30	J
Tetrahydrothiophene	31.0	5.00	ppbv	25.0	U	124	60-128 %	0.08	30	
Dimethyl Disulfide	32.0	5.00	ppbv	25.0	U	128	67-124 %	0.2	30	J
2-Ethyl Thiophene	31.6	5.00	ppbv	25.0	U	126	63-131 %	4	30	
Diethyl Disulfide	31.5	5.00	ppbv	25.0	U	126	57-135 %	3	30	
2,5-Dimethyl Thiophene	30.7	5.00	ppbv	25.0	U	123	58-136 %	6	30	

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
12-Dec-10 11:59

Notes and Definitions

J	Estimated Value
DET	Analyte DETECTED
U	Analyte NOT DETECTED at or above the MDL
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
PQL	Practical Quantitation Limit

Results of liquid samples are reported on a wet-weight basis unless otherwise indicated. Results of solid samples are reported on a dry-weight basis unless otherwise indicated.

LAKELAND LABORATORIES, LLC
1910 HARDEN BOULEVARD, SUITE 101
LAKELAND, FLORIDA 33803-1829
PHONE: (863) 686-4271 FAX: (863) 686-4389

Work Order # 1012098

Chain of Custody Record

Company: ENVIRON International Corp.	Project Name: Fort Bragg – 8 Homes	Page 1 of 1
Address: 10150 Highland Manor Drive, Suite 440, Tampa, FL 33610	Project #:	DEP Form #: 62-770.900(2)
	Project Manager: James L. Poole, PhD, CIH	Form Title: Chain of Custody Record
	Project Location: [redacted]	Effective Date: September 23, 1997
Phone: (813) 628-4325 Fax: (813) 628-4983	P. O. #:	FDEP Facility No.:
Sampled by [Print Name(s)] / Affiliation: [illegible] James L. Poole, PhD, CIH/ENVIRON	Preservatives (see codes)	Project Name:
Sampler(s) Signature(s)	Analyses Requested	

Item No.	Field ID No.	Sampled Date	Sampled Time	Grab or Composite	Matrix (see codes)	Number of Containers	ASTM D5504-08	REQUESTED DUE DATE / / Remarks	Lab. No.
1	120810-1124B-10	12/08/2010	1545	G	A	1	X	Kitchen	001
2	120810-1124A-11	"	1550	G	A	1	X	master bedroom	002
3	120810-1124B-12	"	1555	G	A	1	X	outdoor front	003
4	120810-1124B-13	↓	1600	G	A	1	X	outdoor rear	004

Shipment Method <= Total Number of Containers

Out: / /	Via:	Item No.	Relinquished by / Affiliation	Date	Time	Accepted by / Affiliation	Date	Time
Returned: / /	Via:	1-4	ENVIRON	12/08/2010	1500	8728 6310 3591 /LL	12-8-10	1800
Additional Comments:		1-4	FEDEX 8728 6310 3591	12-9-10	0810	[illegible]	12/9/10	0810

Cooler No.(s) / Temperature(s) (°C)	Sampling Kit No.	Equipment ID No.
Ambient °C		

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) O = Other (specify)

PRESERVATIVE CODES: H = Hydrochloric acid + ice I = Ice only N = Nitric acid + ice S = Sulfuric acid + ice O = Other (specify)

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16 December 2010

ENVIRON International Corp.
ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

RE: Fort Bragg -
Project Location: [redacted] Fort Bragg, NC 28307

Dear ENVIRON International Corp.:

This report details the analytical results of samples collected at the above-referenced project location as well as the results of any associated quality control samples. These samples were taken into custody by Lakeland Laboratories at **13-Dec-10 10:16.**

The work detailed herein has been conducted in accordance with generally accepted professional standards using recognized testing methodologies and quality control measures. It must be noted that the results detailed within this final report apply only to those samples submitted for analysis and reported here. When the NELAP logo is affixed to this report, these test results meet all requirements of the National Environmental Laboratory Accreditation Conference (NELAC).

Your samples will be retained by Lakeland Laboratories for a period of at least 30 days following sample receipt or until the longest of the preparation and/or analytical hold times expires, whichever is shorter. After that time, they will be properly disposed without further notice, unless there exists an explicit contractual agreement to the contrary. We reserve the right to return any unused samples, extracts, or related materials or solutions to you if we consider it necessary. Examples might include those samples identified as hazardous wastes, submissions where the sample sizes significantly exceed those required for analysis, samples containing controlled substances, etc.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full. We will maintain a copy of this report, electronic or otherwise, in our files for at least five years, after which time it may be destroyed without further notice, unless there exists an explicit contractual agreement to the contrary.

We thank you for selecting Lakeland Laboratories to serve your analytical needs. Should you have any questions or require additional information regarding any of the information in this report, please feel free to contact us at any time. We appreciate the opportunity to be of service.

Sincerely,

Technical Director
Jim Crawford For Mark Alessandroni

LAKELAND LABORATORIES

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted] Fort Bragg, NC 28307
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 13:59

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
120810-112LD-1a	1012144-01	Drywall	08-Dec-10 00:00	13-Dec-10 10:16
120810-112LD-2a	1012144-02	Drywall	08-Dec-10 00:00	13-Dec-10 10:16

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted] - Fort Bragg, NC 28307
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 13:59

120810-112LD-1a
1012144-01 (Drywall)

Prepared: 13-Dec-10 10:26
Analyzed: 15-Dec-10 15:32

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Dilution	Method	Qualifiers
Elemental Sulfur by HPLC							Batch: B012018
Elemental Sulfur	U	2.00	1.00	mg/kg	1	LL-SULFUR	

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted] - Fort Bragg, NC 28307
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 13:59

120810-112LD-2a
1012144-02 (Drywall)

Prepared: 13-Dec-10 10:26
Analyzed: 15-Dec-10 15:54

Analyte	Result	PQL	MDL	Units	Dilution	Method	Qualifiers
Lakeland Laboratories, LLC							
Elemental Sulfur by HPLC							Batch: B012018
Elemental Sulfur	U	2.00	1.00	mg/kg	1	LL-SULFUR	

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted] - Fort Bragg, NC 28307
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 13:59

Elemental Sulfur by HPLC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012018 - Prep Method: NO PREP											
Blank (B012018-BLK1)			**Prepared: 13-Dec-10 10:26**			**Analyzed: 14-Dec-10 16:52**					
Elemental Sulfur	U	2.00	1.00	mg/kg							
LCS (B012018-BS1)			**Prepared: 13-Dec-10 10:26**			**Analyzed: 14-Dec-10 17:14**					
Elemental Sulfur	134	2.00	1.00	mg/kg	167		80	70-130 %			
Duplicate (B012018-DUP1)	**Source: 1012128-01**		**Prepared: 13-Dec-10 10:26**			**Analyzed: 14-Dec-10 17:56**					
Elemental Sulfur	U	2.00	1.00	mg/kg		U				30	
Duplicate (B012018-DUP2)	**Source: 1012136-02**		**Prepared: 13-Dec-10 10:26**			**Analyzed: 15-Dec-10 00:41**					
Elemental Sulfur	U	2.00	1.00	mg/kg		U				30	
Duplicate (B012018-DUP3)	**Source: 1012142-02**		**Prepared: 13-Dec-10 10:26**			**Analyzed: 15-Dec-10 12:42**					
Elemental Sulfur	U	2.00	1.00	mg/kg		U				30	
Matrix Spike (B012018-MS1)	**Source: 1012128-02**		**Prepared: 13-Dec-10 10:26**			**Analyzed: 14-Dec-10 19:00**					
Elemental Sulfur	130	2.00	1.00	mg/kg	167	U	78	70-130 %			
Matrix Spike (B012018-MS2)	**Source: 1012136-03**		**Prepared: 13-Dec-10 10:26**			**Analyzed: 15-Dec-10 01:23**					
Elemental Sulfur	133	2.00	1.00	mg/kg	167	U	80	70-130 %			
Matrix Spike (B012018-MS3)	**Source: 1012142-03**		**Prepared: 13-Dec-10 10:26**			**Analyzed: 15-Dec-10 13:46**					
Elemental Sulfur	152	2.00	1.00	mg/kg	167	U	91	70-130 %			
Matrix Spike Dup (B012018-MSD1)	**Source: 1012128-02**		**Prepared: 13-Dec-10 10:26**			**Analyzed: 14-Dec-10 19:21**					
Elemental Sulfur	133	2.00	1.00	mg/kg	167	U	80	70-130 %	2	30	
Matrix Spike Dup (B012018-MSD2)	**Source: 1012136-03**		**Prepared: 13-Dec-10 10:26**			**Analyzed: 15-Dec-10 01:45**					
Elemental Sulfur	137	2.00	1.00	mg/kg	167	U	82	70-130 %	3	30	

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted] Fort Bragg, NC 28307
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 13:59

Elemental Sulfur by HPLC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012018 - Prep Method: NO PREP											
Matrix Spike Dup (B012018-MSD3)	**Source: 1012142-03**		**Prepared: 13-Dec-10 10:26**			**Analyzed: 15-Dec-10 14:07**					
Elemental Sulfur	148	2.00	1.00	mg/kg	167	U	89	70-130 %	3	30	

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Tampa, FL 33610

Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted] Fort Bragg, NC 28307
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 13:59

Notes and Definitions

DET	Analyte DETECTED
U	Analyte NOT DETECTED at or above the MDL
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
PQL	Practical Quantitation Limit

Results of liquid samples are reported on a wet-weight basis unless otherwise indicated. Results of solid samples are reported on a dry-weight basis unless otherwise indicated.

ENVIRON 1012144

Chain of Custody

Page 1 of 1

ENVIRON International Corporation
10150 Highlands Manor Drive, Ste 440
Tampa, FL 33610
Tel: 813-628-4325 FAX: 813.628.4983

Project name: Fort Bragg (Chemega)
Site Address: [redacted]
Site Owner:
Phase #: 2

Date: 12/10/10

Sample ID	Date Collected	Time Collected	Description	Medium	Analysis Requested
120810-112LD-1a	12/8/10		drywall sample - west bedroom - east wall	solid	elemental S
120810-112LD-2a	↓		drywall sample - living room - west wall	solid	elemental S

Shipped to: Lakeland Labs

Address: Attn: 1910 Harden Blvd Suite 101
Lakeland, FL 33803

Shipment Method: pick-up

Tracking number:

Preservation:

Date:

Collected by: Name and Date: James L. Poole
Signature: (see original COC)

Comments: sub sampled for testing

Relinquished by:
Signature:
Name: Cindy Lyons
Date: 12-13-10
Time: 10:16

Received by:
Name: W GRAFT
Signature:
Date: 12-13-10
Time: 10:16

Relinquished by:
Signature:
Name:
Date:
Time:

Received by:
Name:
Signature:
Date:
Time:

Relinquished by:
Signature:
Name:
Date:
Time:

Received by:
Name:
Signature:
Date:
Time:

9

ENVIRON

January 19, 2011

[redacted]
Chief, Environmental Compliance Branch
Directorate of Public Works
Bldg. 3-1137, Butner Road
Fort Bragg, North Carolina 28310

Via email: [redacted]@us.army.mil

RE: [redacted] Fort Bragg, North Carolina 28307

Dear [redacted],

Pursuant to your request, ENVIRON has evaluated this home to determine whether there is evidence in the home of effects from defective gypsum wallboard. ENVIRON's evaluation included:

- the measurement of indoor and outdoor air using a calibrated direct-reading hydrogen sulfide analyzer
- the collection of indoor and outdoor ambient air samples for subsequent laboratory analysis
- examination of the air handler of the HVAC system, copper portions of plumbing and electrical components, including receptacles, switches and exposed copper wiring
- opening walls to inspect for labeling or manufacturing marks on wallboard
- collection of wallboard samples for analysis of elemental sulfur

On November 4, 2010, ENVIRON collected indoor and outdoor ambient air samples for subsequent laboratory analysis (Sample 110410-144-1 from the upstairs hallway; Sample 110410-144-2 from the family room; and Sample 110410-144-3 from outdoors). ENVIRON delivered the air samples to Lakeland Labs, LLC, an independent accredited laboratory, which tested the air samples for the presence and concentration of 20 sulfur-containing compounds using American Society for Testing and Materials (ASTM) Method D-5504. As you can see from the attached laboratory results, Lakeland Labs, LLC did not report measureable levels of any of the 20 sulfur compounds. In addition, the calibrated direct-reading hydrogen sulfide analyzer detected no indoor concentrations of hydrogen sulfide above the levels detected outside of the home. In addition, the calibrated direct-reading hydrogen sulfide analyzer detected no indoor concentrations of hydrogen sulfide above the levels detected outside of the home.

ENVIRON also inspected copper components associated with the HVAC system and plumbing, as well as electrical components for discoloration and residue characteristic of corrosion from exposure to defective gypsum wallboard. No black surface accumulations were observed.

ENVIRON cut openings in walls to observe the unpainted side of wallboard for labeling or markings indicative of Chinese-manufactured wallboard: No markings associated with Chinese-manufactured wallboard were found. We did not detect odors characteristic of defective Chinese-manufactured wallboard in the home or while opening walls.

On November 5, 2010, ENVIRON collected and submitted ten wallboard samples to Lakeland Labs, LLC for analysis of elemental sulfur content. Elemental sulfur is a particular form of sulfur present at elevated levels in defective wallboard that produces corrosive sulfide gases. Analyzed samples were collected from the living room (110510-144-1a), the first floor hallway (110510-144-2a), the family room (110510-144-3a), the stairway (110510-144-4a), the rear spare bedroom (110510-144-5a), the master bedroom (110510-144-6a), the second floor hallway (110510-144-7a), the front spare bedroom (110510-144-8a and 110510-144-9a), and the garage (110510-144-10a). The laboratory did not detect elemental sulfur in any of the samples, as shown in the attached report. None of these samples have the chemical composition associated with defective wallboard.

Based on these observations, ENVIRON concludes that there is no evidence of effects from defective wallboard in the subject home. Also, we did not find indications suggesting that the wallboard was manufactured in China. If you have any questions or concerns regarding our evaluation, please do not hesitate to contact us.

Sincerely,

Robert P. DeMott, PhD, DABT
Principal Toxicologist

James L. Poole, PhD, CIH
Principal Industrial Hygienist

Enclosure: Attachment 1, Laboratory Results

ATTACHMENT 1

[redacted]

LABORATORY RESULTS

Analytical Report #: 23969

for

ENVIRON International Corp.

Project Manager: ENVIRON International Corp.

Project Name: Directorate of Public Works

Project Location: Fort Bragg - [redacted]

09-NOV-10

LAKELAND
LABORATORIES

NELAP Certification Number: E84880

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LAKELAND
LABORATORIES

09-NOV-10

ENVIRON International Corp.
ENVIRON International Corp.
10150 Highland Manor Drive
Suite 440
Tampa, FL 33610

Reference: LAKELAND Work Order No: **23969**
Directorate of Public Works
Project Location: Fort Bragg - [redacted]
Project Ref No:
Lab Quote No:

Dear ENVIRON International Corp. :

The attached Analytical and QC Summaries list the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Lakeland Laboratories Work Order numbered **23969**.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies and QA/QC procedures. Lakeland Laboratories is limited in liability to the actual cost of the pertinent analysis done. Your samples will be retained by Lakeland Laboratories for a period of 30 days following receipt of the samples. After that time, they will be properly disposed of without further notice, unless there is a pre-arranged contractual arrangement. We reserve the right to return any unused samples, extracts or related solutions to you, if we consider it necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Lakeland Laboratories. This report will be filed for at least 3 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you.

We thank you for selecting Lakeland Laboratories Incorporated to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Sincerely,

Mark A. Alessandroni, PE
Technical Director

1910 Harden Boulevard, Suite 101
Lakeland, Florida 33803-1829
Phone: (863) 686-4271
Fax: (863) 686-4389

CASE NARRATIVE

LAKELAND LABORATORIES

Client Name: ENVIRON International Corp.
Project Name: Directorate of Public Works

Project ID:
Work Order Number: 23969

Report Date: 09-NOV-10
Date Received: 05-NOV-10

Sample receipt non conformances and Comments:

Samples were delivered via overnight courier (Federal Express Airbill No. 4651 6266 74) and received in the laboratory at 8:48 AM on November 5, 2010. The samples were analyzed the same day, within the mandated holding time of 24 hours. Unless noted elsewhere in the report, no deviations from the laboratory SOP were made.

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch:	*LBA-71492*	*Sulfur Compounds in Air By ASTM D5504-08*

All compounds fell within acceptance criteria for relative percent difference (precision) and percent recovery (accuracy) in the matrix spike-matrix spike duplicate and blank spike-blank spike duplicate QA pairs. A method reporting limit (MRL) standard was run and all target analytes were detected, confirming sensitivity of the analytical system.

LAKELAND LABORATORIES

Certificate of Analysis Summary 23969

ENVIRON International Corp., Tampa, FL

Project Name: Directorate of Public Works

Project Id:

Contact: ENVIRON International Corp.

Project Location: Fort Bragg [redacted]

Date Received in Lab: Fri Nov-05-10 08:48 am

Report Date: 09-NOV-10

Project Manager: Mark A. Alessandroni, PE

Analysis Requested	*Lab Id:*	23969-001		23969-002		23969-003				
	Field Id:	110410-144-1		110410-144-2		110410-144-3				
	Depth:									
	Matrix:	AMBIENT AIR		AMBIENT AIR		AMBIENT AIR				
	Sampled:	Nov-04-10 13:48		Nov-04-10 13:52		Nov-04-10 13:59				
Sulfur Compounds in Air By ASTM D5504-08	*Extracted:*									
	Analyzed:	Nov-05-10 10:55		Nov-05-10 12:02		Nov-05-10 12:13				
	Units/RL:	ppbv	PQL	ppbv	PQL	ppbv	PQL			
Hydrogen Sulfide		U	5.00	U	5.00	U	5.00			
Carbonyl Sulfide		U	5.00	U	5.00	U	5.00			
Methyl Mercaptan		U	5.00	U	5.00	U	5.00			
Ethyl Mercaptan		U	5.00	U	5.00	U	5.00			
Dimethyl Sulfide		U	5.00	U	5.00	U	5.00			
Carbon Disulfide		U	5.00	U	5.00	U	5.00			
Isopropyl Mercaptan		U	5.00	U	5.00	U	5.00			
tert-Butyl Mercaptan		U	5.00	U	5.00	U	5.00			
n-Propyl Mercaptan		U	5.00	U	5.00	U	5.00			
Ethyl Methyl Sulfide		U	5.00	U	5.00	U	5.00			
Thiophene		U	5.00	U	5.00	U	5.00			
Isobutyl Mercaptan		U	5.00	U	5.00	U	5.00			
n-Butyl Mercaptan		U	5.00	U	5.00	U	5.00			
Diethyl Sulfide		U	5.00	U	5.00	U	5.00			
3-Methyl Thiophene		U	5.00	U	5.00	U	5.00			
Tetrahydrothiophene		U	5.00	U	5.00	U	5.00			
Dimethyl Disulfide		U	5.00	U	5.00	U	5.00			
2-Ethyl Thiophene		U	5.00	U	5.00	U	5.00			
Diethyl Disulfide		U	5.00	U	5.00	U	5.00			
2,5-Dimethyl Thiophene										

LAKELAND
LABORATORIES

Quality Control Sample Legend

Lakeland Labs Quality Control Sample Legend

This analytical report may include results for various quality assurance/quality control (QA/QC) samples prepared and analyzed as required within various sample preparation and analytical batches. In-house sample identification is based on the Lakeland Labs Work Order No. followed by the Work Order Item No. For example, the second item on Work Order No. 10000 would be assigned Lab Sample ID 10000-002. The QA/QC sample identifications are affixed with suffixes to differentiate them from the actual sample results. For QA/QC samples generated in-house such as method blanks, blank spikes, blank spike duplicates, etc., the preparation or analytical batch number is used instead of the Work Order No. To assist the data reviewer, the following legend provides information on the various QA/QC samples and the suffixes used to denote them:

- BLK Method Blank. A method blank, also known as a laboratory control blank (LCB), is a sample of a matrix similar to the batch of associated samples (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences are present at concentrations that impact the analytical results for sample analyses.

- BKS Blank Spike. A blank spike, also known as a calibration verification or laboratory control sample (LCS), is a sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes. It is generally used to establish intra-laboratory or analyst-specific precision and bias (accuracy) or to assess the performance of all or a portion of the measurement system. Successful analysis of the blank spike sample demonstrates an analytical system's ability to accurately measure target analyte concentrations.

- BSD Blank Spike Duplicate. A blank spike duplicate, also known as a laboratory control sample duplicate (LCSD), is a second blank spike sample, often bracketing a group of samples within a batch. Successful analysis of the blank spike duplicate sample demonstrates not only an analytical system's continuing ability to accurately measure target analyte concentrations, but also, when compared with the blank spike results, the system's precision.

- S Matrix Spike (MS). A matrix spike is a sample prepared by adding a known mass of target analyte(s) to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. Matrix spikes are used, for example, to determine the effect of the matrix on a method's recovery efficiency.

- SD Matrix Spike Duplicate (MSD). A matrix spike duplicate is a second replicate matrix spike prepared in the laboratory and analyzed to obtain a measure of the precision of the recovery for each analyte.

- D Matrix Duplicate (MD). A matrix duplicate is a second replicate matrix prepared in the laboratory and analyzed to obtain a measure of precision.

- MRL Method Reporting Limit. A method reporting limit standard is an analyte-free matrix similar to the sample matrices spiked with one or more of the target analytes at a concentration equal to or less than the method reporting limit (also known as the practical quantitation limit or PQL). Successful analysis of the MRL standard demonstrates the analytical system's ability to identify the spiked analytes of interest at the MRL/PQL.

LAKELAND
LABORATORIES

Flagging Criteria

FLORIDA Flagging Criteria

Data were reviewed by the Department Supervisor and QA Director

A Value reported is the mean (average) of two or more determinations. This code shall be used if the reported value is the average of results for two or more discrete and separate samples. These samples shall have been processed and analyzed independently. Do not use this code if the data are the result of replicate analysis on the same sample aliquot, extract or digestate.

B Results based upon colony counts outside the acceptable range. This code applies to microbiological tests and specifically to membrane filter colony counts. The code is to be used if the colony count is generated from a plate in which the total number of coliform colonies is outside the method indicated ideal range. This code is not to be used if a 100 mL sample has been filtered and the colony count is less than the lower value of the ideal range.

J Estimated value. A "J" value shall be accompanied by a narrative justification for its use. Where possible, the organization shall report whether the actual value is less than or greater than the reported value. A "J" value shall not be used as a substitute for K, L, M, T, V, or Y, however, if additional reasons exist for identifying the value as estimate (e.g., matrix spiked failed to meet acceptance criteria), the "J" code may be added to a K, L, M, T, V, or Y. The following are some examples of narrative descriptions that may accompany a "J" code: .

J1: No known quality control criteria exist for the component;

J2: The reported value failed to meet the established quality control criteria for

either precision or accuracy (the specific failure must be identified);

J3: The sample matrix interfered with the ability to make any accurate determination;

J4: The data are questionable because of improper laboratory or field protocols

Q Sample held beyond the accepted holding time. This code shall be used if the value is derived from a sample that was prepared or analyzed after the approved holding time restrictions for sample preparation or analysis.

T Value reported is less than the laboratory method detection limit. The value is reported for informational purposes, only and shall not be used in statistical analysis.

U Indicates that the compound was analyzed for but not detected. This symbolshall be used to indicate that the specified component was not detected. The value associated with the qualifier shall be the laboratory method detection limit. Unless requested by the client, less than the method detection limit values shall not be reported (see "T" above).

V Indicates that the analyte was detected in both the sample and the associated method blank. Note: the value in the blank shall not be subtracted from associated samples.

Y The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

LAKELAND
LABORATORIES

Flagging Criteria

FLORIDA Flagging Criteria

*	Not analyzed due to interference
R	Significant rain in the past 48 hours. (Significant rain typically involves rain in excess of 1/2 inch within the past 48 hours.) This code shall be used when the rainfall might contribute to a lower than normal value.
!	Data deviate from historically established concentration ranges.
+	Analyte falls outside current scope of NELAP accreditation.
X	In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
D	The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
F	When reporting species: F indicates the female sex. Otherwise it indicates RPD value is outside the acceptable range.
L	Off-scale high. Actual value is known to be greater than value given. To be used when the concentration of the analyte is above the acceptable level for quantitation (exceeds the linear range or highest calibration standard) and the calibration curve is known to exhibit a negative deflection.
H	Value based on field kit determination; results may not be accurate. This code shall be used if a field screening test (i.e., field gas chromatograph data, immunoassay, vendor-supplied field kit, etc.) was used to generate the value and the field kit or method has not been recognized by the Department as equivalent to laboratory methods.

LAKELAND LABORATORIES

Sample Duplicate Recovery

Project Name: Directorate of Public Works

Report Date: 09-NOV-10

Work Order #: 23969

Project ID:

Lab Batch #: 71492 | Date Prepared: 11/05/2010 | Analyst: GARGAR

Date Analyzed: 11/05/2010 | Batch #: 1 | Matrix: Air

QC- Sample ID: 23969-001 D

Reporting Units: ppbv

Sulfur Compounds in Air By ASTM D5504-08	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Hydrogen Sulfide	<5.00	<5.00	NC	30	
Carbonyl Sulfide	<5.00	<5.00	NC	30	
Methyl Mercaptan	<5.00	<5.00	NC	30	
Ethyl Mercaptan	<5.00	<5.00	NC	30	
Dimethyl Sulfide	<5.00	<5.00	NC	30	
Carbon Disulfide	<5.00	<5.00	NC	30	
Isopropyl Mercaptan	<5.00	<5.00	NC	30	
tert-Butyl Mercaptan	<5.00	<5.00	NC	30	
n-Propyl Mercaptan	<5.00	<5.00	NC	30	
Ethyl Methyl Sulfide	<5.00	<5.00	NC	30	
Thiophene	<5.00	<5.00	NC	30	
Isobutyl Mercaptan	<5.00	<5.00	NC	30	
n-Butyl Mercaptan	<5.00	<5.00	NC	30	
Diethyl Sulfide	<5.00	<5.00	NC	30	
3-Methyl Thiophene	<5.00	<5.00	NC	30	
Tetrahydrothiophene	<5.00	<5.00	NC	30	
Dimethyl Disulfide	<5.00	<5.00	NC	30	
2-Ethyl Thiophene	<5.00	<5.00	NC	30	
Diethyl Disulfide	<5.00	<5.00	NC	30	
2,5-Dimethyl Thiophene					

Spike Relative Difference RPD 200 * |(B-A)/(B+A)|
All Results are based on MDL and validated for QC purposes.

LAKELAND LABORATORIES

Form 3 - MS / MSD Recoveries

Project Name: Directorate of Public Works

Report Date: 09-NOV-10

Project ID:

Work Order # : 23969

Lab Batch ID: 71492

Date Analyzed: 11/05/2010

Reporting Units: ppbv

QC- Sample ID: 23969-001 S

Date Prepared: 11/05/2010

Batch #: 1 **Matrix:** Ambient Air

Analyst: GARGAR

Sulfur Compounds in Air By ASTM D5504-08

Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Hydrogen Sulfide	<5.00	25.0	23.9	96	25.0	23.4	94	2	63-128	30	
Carbonyl Sulfide	<5.00	25.0	27.3	109	25.0	27.0	108	1	78-195	30	
Methyl Mercaptan	<5.00	25.0	24.3	97	25.0	23.5	94	3	58-131	30	
Ethyl Mercaptan	<5.00	25.0	25.0	100	25.0	23.8	95	5	52-138	30	
Dimethyl Sulfide	<5.00	25.0	24.2	97	25.0	23.4	94	3	75-118	30	
Carbon Disulfide	<5.00	25.0	27.7	111	25.0	26.8	107	3	71-186	30	
Isopropyl Mercaptan	<5.00	25.0	24.6	98	25.0	23.6	94	4	66-117	30	
tert-Butyl Mercaptan	<5.00	25.0	24.9	100	25.0	24.6	98	1	52-138	30	
n-Propyl Mercaptan	<5.00	25.0	24.9	100	25.0	24.7	99	1	61-128	30	
Ethyl Methyl Sulfide	<5.00	25.0	23.5	94	25.0	23.0	92	2	70-123	30	
Thiophene	<5.00	25.0	23.7	95	25.0	23.4	94	1	69-123	30	
Isobutyl Mercaptan	<5.00	25.0	24.6	98	25.0	24.1	96	2	57-127	30	
n-Butyl Mercaptan	<5.00	25.0	24.4	98	25.0	24.0	96	2	74-124	30	
Diethyl Sulfide	<5.00	25.0	24.4	98	25.0	23.7	95	3	63-116	30	
3-Methyl Thiophene	<5.00	25.0	23.6	94	25.0	23.0	92	3	72-121	30	
Tetrahydrothiophene	<5.00	25.0	23.8	95	25.0	23.3	93	2	60-128	30	
Dimethyl Disulfide	<5.00	25.0	24.0	96	25.0	23.5	94	2	67-124	30	
2-Ethyl Thiophene	<5.00	25.0	24.6	98	25.0	23.6	94	4	63-131	30	
Diethyl Disulfide	<5.00	25.0	22.9	92	25.0	22.9	92	0	57-135	30	
2,5-Dimethyl Thiophene	<5.00	25.0	23.8	95	25.0	22.8	91	4	58-136	30	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(C-F)/(C+F)

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

LAKELAND LABORATORIES

BS / BSD Recoveries

Project Name: Directorate of Public Works

Work Order #: 23969 **Report Date** 09-NOV-10

Analyst: GARGAR **Project ID:**

Lab Batch ID: 71492 **Sample:** 71492-1-BKS **Date Prepared:** 11/05/2010 **Batch #:** 1 **Date Analyzed:** 11/05/2010

Units: ppbv **Matrix:** Air

Sulfur Compounds in Air By ASTM D5504-08	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Hydrogen Sulfide	<5.00	25.0	23.2	93	25.0	26.3	105	13	63-128	30	
Carbonyl Sulfide	<5.00	25.0	22.6	90	25.0	25.3	101	11	78-195	30	
Methyl Mercaptan	<5.00	25.0	23.2	93	25.0	25.8	103	11	58-131	30	
Ethyl Mercaptan	<5.00	25.0	23.6	94	25.0	25.8	103	9	52-138	30	
Dimethyl Sulfide	<5.00	25.0	23.4	94	25.0	25.8	103	10	75-118	30	
Carbon Disulfide	<5.00	25.0	22.2	89	25.0	25.1	100	12	71-186	30	
Isopropyl Mercaptan	<5.00	25.0	23.2	93	25.0	26.0	104	11	66-117	30	
tert-Butyl Mercaptan	<5.00	25.0	23.2	93	25.0	25.7	103	10	52-138	30	
n-Propyl Mercaptan	<5.00	25.0	23.9	96	25.0	26.2	105	9	61-128	30	
Ethyl Methyl Sulfide	<5.00	25.0	22.1	88	25.0	25.4	102	14	70-123	30	
Thiophene	<5.00	25.0	23.8	95	25.0	26.5	106	11	69-123	30	
Isobutyl Mercaptan	<5.00	25.0	23.8	95	25.0	26.8	107	12	57-127	30	
n-Butyl Mercaptan	<5.00	25.0	23.5	94	25.0	26.5	106	12	74-124	30	
Diethyl Sulfide	<5.00	25.0	24.1	96	25.0	26.2	105	8	63-116	30	
3-Methyl Thiophene	<5.00	25.0	23.3	93	25.0	25.9	104	11	72-121	30	
Tetrahydrothiophene	<5.00	25.0	24.4	98	25.0	26.2	105	7	60-128	30	
Dimethyl Disulfide	<5.00	25.0	23.8	95	25.0	26.6	106	11	67-124	30	
2-Ethyl Thiophene	<5.00	25.0	24.0	96	25.0	26.2	105	9	63-131	30	
Diethyl Disulfide	<5.00	25.0	24.0	96	25.0	25.9	104	8	57-135	30	
2,5-Dimethyl Thiophene	<5.00	25.0	23.1	92	25.0	25.9	104	11	58-136	30	

Relative Percent Difference RPD = 200*|(D-F)/(D+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

LAKELAND LABORATORIES, LLC
1910 HARDEN BOULEVARD, SUITE 101
LAKELAND, FLORIDA 33803-1829
PHONE: (863) 686-4271 FAX: (863) 686-4389

Work Order # 23969
#1011043

Florida NELAP Certificate No. E84880

ACCREDITED IN ACCORDANCE WITH nelac

Chain of Custody Record

DEP Form #: 62-770.900(2)
Form Title: Chain of Custody Record
Effective Date: September 23, 1997

Company: ENVIRON International Corp.	Project Name: Directorate of Public Works
Address: 10150 Highland Manor Drive, Suite 440, Tampa, FL 33610	Project #:
Phone: (813) 628-4325 Fax: (813) 628-4983	Project Manager: James L. Poole
Sampled by [Print Name(s)] / Affiliation: James L Poole / ENVIRON	Project Location: Fort Bragg - [redacted]
Sampler(s) Signature(s): James L Poole	P. O. #:

FDEP Facility No.:
Project Name:

Preservatives (see codes): —

Analyses Requested: ASTM D-5504

REQUESTED DUE DATE: / /

Item No.	Field ID No.	Sampled Date	Sampled Time	Grab or Composite	Matrix (see codes)	Number of Containers	ASTM D-5504	Remarks	Lab. No.
1	110410-144-1	11/4/10	13:48	Grab	A	1	X		001
2	110410-144-2	11/4/10	13:52	Grab	A	1	X		002
3	110410-144-3	11/4/10	13:59	Grab	A	1	X		003
						3	<= Total Number of Containers		

Shipment Method		Item No.	Relinquished by / Affiliation	Date	Time	Accepted by / Affiliation	Date	Time
Out: / /	Via:	1-3	James L Poole / ENVIRON	11/04/10	1753	4651626674 FedEx	11.4.10	1753
Returned: / /	Via:	1-3	4651626674 - FedEx Air	11/5/10	848	[signature] / L.L.	11/5/10	848

Additional Comments:

Cooler No.(s) / Temperature(s) (°C): °C

Sampling Kit No.:

Equipment ID No.:

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) O = Other (specify)

PRESERVATIVE CODES: H = Hydrochloric acid + ice I = Ice only N = Nitric acid + ice S = Sulfuric acid + ice O = Other (specify)

Analytical Report #: 24015

for

ENVIRON International Corp.

Project Manager: ENVIRON International Corp.

Project Name: DPW- Ft. Bragg

Project ID: [redacted]

Project Location: [redacted] **Fort Bragg, NC**

17-NOV-10

LAKELAND
LABORATORIES

NELAP Certification Number: E84880

1910 Harden Boulevard, Suite 101
Lakeland, Florida 33803-1829
Phone: (863) 686-4271
Fax: (863) 686-4389

LAKELAND
LABORATORIES

17-NOV-10

ENVIRON International Corp.
ENVIRON International Corp.
10150 Highland Manor Drive
Suite 440
Tampa, FL 33610

Reference: LAKELAND Work Order No: **24015**
DPW- Ft. Bragg
Project Location: [redacted] - Fort Bragg, NC
Project Ref No: [redacted]
Lab Quote No:

Dear ENVIRON International Corp. :

The attached Analytical and QC Summaries list the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Lakeland Laboratories Work Order numbered **24015**.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies and QA/QC procedures. Lakeland Laboratories is limited in liability to the actual cost of the pertinent analysis done. Your samples will be retained by Lakeland Laboratories for a period of 30 days following receipt of the samples. After that time, they will be properly disposed of without further notice, unless there is a pre-arranged contractual arrangement. We reserve the right to return any unused samples, extracts or related solutions to you, if we consider it necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Lakeland Laboratories. This report will be filed for at least 3 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you.

We thank you for selecting Lakeland Laboratories Incorporated to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Sincerely,

James M. Crawford
Quality Assurance Officer

1910 Harden Boulevard, Suite 101
Lakeland, Florida 33803-1829
Phone: (863) 686-4271
Fax: (863) 686-4389

LAKELAND LABORATORIES

Certificate of Analysis Summary 24015

ENVIRON International Corp., Tampa, FL

Project Name: DPW- Ft. Bragg

Project Id: [redacted]

Contact: ENVIRON International Corp.

Project Location: [redacted] Fort Bragg, NC

Date Received in Lab: Tue Nov-09-10 02:30 pm

Report Date: 17-NOV-10

Project Manager: Mark A. Alessandroni, PE

Analysis Requested													
	Lab Id:	24015-001		24015-002		24015-003		24015-004		24015-005		24015-006	
	Field Id:	110510-144-1a		110510-144-2a		110510-144-3a		110510-144-4a		110510-144-5a		110510-144-6a	
	Depth:												
	Matrix:	SOLID/SOLID		SOLID/SOLID		SOLID/SOLID		SOLID/SOLID		SOLID/SOLID		SOLID/SOLID	
	Sampled:	Nov-05-10 00:00		Nov-05-10 00:00		Nov-05-10 00:00		Nov-05-10 00:00		Nov-05-10 00:00		Nov-05-10 00:00	
Elemental Sulfur by HPLC	*Extracted:*	Nov-14-10 17:00		Nov-14-10 17:00		Nov-14-10 17:00		Nov-14-10 17:00		Nov-14-10 17:00		Nov-14-10 17:00	
	Analyzed:	Nov-16-10 03:59		Nov-16-10 04:21		Nov-16-10 04:42		Nov-16-10 05:03		Nov-16-10 05:46		Nov-16-10 06:07	
	Units/RL:	mg/kg	PQL	mg/kg	PQL	mg/kg	PQL	mg/kg	PQL	mg/kg	PQL	mg/kg	PQL
Sulfur, mol (S8)		U	2.00	U	2.00	U	2.00	U	2.00	U	2.00	U	2.00

LAKELAND LABORATORIES

Certificate of Analysis Summary 24015

ENVIRON International Corp., Tampa, FL

Project Name: DPW- Ft. Bragg

Project Id: [redacted]
Contact: ENVIRON International Corp.
Project Location: [redacted] - Fort Bragg, NC

Date Received in Lab: Tue Nov-09-10 02:30 pm
Report Date: 17-NOV-10
Project Manager: Mark A. Alessandroni, PE

Analysis Requested									
	Lab Id:	24015-007		24015-008		24015-009		24015-010			
	Field Id:	110510-144-7a		110510-144-8a		110510-144-9a		110510-144-10a			
	Depth:										
	Matrix:	SOLID/SOLID		SOLID/SOLID		SOLID/SOLID		SOLID/SOLID			
	Sampled:	Nov-05-10 00:00		Nov-05-10 00:00		Nov-05-10 00:00		Nov-05-10 00:00			
Elemental Sulfur by HPLC	*Extracted:*	Nov-14-10 17:00		Nov-14-10 17:00		Nov-14-10 17:00		Nov-14-10 17:00			
	Analyzed:	Nov-16-10 06:28		Nov-16-10 06:50		Nov-16-10 07:11		Nov-15-10 17:00			
	Units/RL:	mg/kg	PQL	mg/kg	PQL	mg/kg	PQL	mg/kg	PQL		
Sulfur, mol (S8)		U	2.00	U	2.00	U	2.00	U	2.00		

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Certificate of Analysis #: 24015

ENVIRON International Corp., Tampa, FL

DPW- Ft. Bragg

Sample Id: **110510-144-1a** | Matrix: **SOLID/SOLID** | Date Received: **Nov-09-10 14:30**
Lab Sample Id: **24015-001** | Date Collected: **Nov-05-10 00:00** | % Moisture: **0.000**
Sample Depth: | Basis: **Wet**

Analytical Method: Elemental Sulfur by HPLC | Prep Method: LL-SULF-P
Date Analyzed: Nov-16-10 03:59 | Analyst: GARGAR | Date Prep: Nov-14-10 17:00 | Tech: TRAWIL
Seq Number: 71562

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Sulfur, mol (S8) +	10544-50-0	U	2.00	1.00	mg/kg	U	1

Sample Id: **110510-144-2a** | Matrix: **SOLID/SOLID** | Date Received: **Nov-09-10 14:30**
Lab Sample Id: **24015-002** | Date Collected: **Nov-05-10 00:00** | % Moisture: **0.000**
Sample Depth: | Basis: **Wet**

Analytical Method: Elemental Sulfur by HPLC | Prep Method: LL-SULF-P
Date Analyzed: Nov-16-10 04:21 | Analyst: GARGAR | Date Prep: Nov-14-10 17:00 | Tech: TRAWIL
Seq Number: 71562

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Sulfur, mol (S8) +	10544-50-0	U	2.00	1.00	mg/kg	U	1

Sample Id: **110510-144-3a** | Matrix: **SOLID/SOLID** | Date Received: **Nov-09-10 14:30**
Lab Sample Id: **24015-003** | Date Collected: **Nov-05-10 00:00** | % Moisture: **0.000**
Sample Depth: | Basis: **Wet**

Analytical Method: Elemental Sulfur by HPLC | Prep Method: LL-SULF-P
Date Analyzed: Nov-16-10 04:42 | Analyst: GARGAR | Date Prep: Nov-14-10 17:00 | Tech: TRAWIL
Seq Number: 71562

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Sulfur, mol (S8) +	10544-50-0	U	2.00	1.00	mg/kg	U	1

Sample Id: **110510-144-4a** | Matrix: **SOLID/SOLID** | Date Received: **Nov-09-10 14:30**
Lab Sample Id: **24015-004** | Date Collected: **Nov-05-10 00:00** | % Moisture: **0.000**
Sample Depth: | Basis: **Wet**

Analytical Method: Elemental Sulfur by HPLC | Prep Method: LL-SULF-P
Date Analyzed: Nov-16-10 05:03 | Analyst: GARGAR | Date Prep: Nov-14-10 17:00 | Tech: TRAWIL
Seq Number: 71562

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Sulfur, mol (S8) +	10544-50-0	U	2.00	1.00	mg/kg	U	1

*

Results of liquid samples are reported on a wet-weight basis unless otherwise indicated. Results of solid samples are reported on a dry-weight basis unless otherwise indicated.

LAKELAND LABORATORIES

Certificate of Analysis #: 24015

ENVIRON International Corp., Tampa, FL

DPW- Ft. Bragg

Sample Id: **110510-144-5a** | Matrix: **SOLID/SOLID** | Date Received: **Nov-09-10 14:30**
Lab Sample Id: **24015-005** | Date Collected: **Nov-05-10 00:00** | % Moisture: **0.000**
Sample Depth: | Basis: **Wet**

Analytical Method: Elemental Sulfur by HPLC | Prep Method: LL-SULF-P
Date Analyzed: Nov-16-10 05:46 | Analyst: GARGAR | Date Prep: Nov-14-10 17:00 | Tech: TRAWIL
Seq Number: 71562

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Sulfur, mol (S8) +	10544-50-0	U	2.00	1.00	mg/kg	U	1

Sample Id: **110510-144-6a** | Matrix: **SOLID/SOLID** | Date Received: **Nov-09-10 14:30**
Lab Sample Id: **24015-006** | Date Collected: **Nov-05-10 00:00** | % Moisture: **0.000**
Sample Depth: | Basis: **Wet**

Analytical Method: Elemental Sulfur by HPLC | Prep Method: LL-SULF-P
Date Analyzed: Nov-16-10 06:07 | Analyst: GARGAR | Date Prep: Nov-14-10 17:00 | Tech: TRAWIL
Seq Number: 71562

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Sulfur, mol (S8) +	10544-50-0	U	2.00	1.00	mg/kg	U	1

Sample Id: **110510-144-7a** | Matrix: **SOLID/SOLID** | Date Received: **Nov-09-10 14:30**
Lab Sample Id: **24015-007** | Date Collected: **Nov-05-10 00:00** | % Moisture: **0.000**
Sample Depth: | Basis: **Wet**

Analytical Method: Elemental Sulfur by HPLC | Prep Method: LL-SULF-P
Date Analyzed: Nov-16-10 06:28 | Analyst: GARGAR | Date Prep: Nov-14-10 17:00 | Tech: TRAWIL
Seq Number: 71562

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Sulfur, mol (S8) +	10544-50-0	U	2.00	1.00	mg/kg	U	1

Sample Id: **110510-144-8a** | Matrix: **SOLID/SOLID** | Date Received: **Nov-09-10 14:30**
Lab Sample Id: **24015-008** | Date Collected: **Nov-05-10 00:00** | % Moisture: **0.000**
Sample Depth: | Basis: **Wet**

Analytical Method: Elemental Sulfur by HPLC | Prep Method: LL-SULF-P
Date Analyzed: Nov-16-10 06:50 | Analyst: GARGAR | Date Prep: Nov-14-10 17:00 | Tech: TRAWIL
Seq Number: 71562

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Sulfur, mol (S8) +	10544-50-0	U	2.00	1.00	mg/kg	U	1

*

Results of liquid samples are reported on a wet-weight basis unless otherwise indicated. Results of solid samples are reported on a dry-weight basis unless otherwise indicated.

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Certificate of Analysis #: 24015

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Sample Id: **110510-144-9a** | Matrix: **SOLID/SOLID** | Date Received: **Nov-09-10 14:30**
Lab Sample Id: **24015-009** | Date Collected: **Nov-05-10 00:00** | % Moisture: **0.000**
Sample Depth: | Basis: **Wet**

Analytical Method: Elemental Sulfur by HPLC | Prep Method: LL-SULF-P
Date Analyzed: Nov-16-10 07:11 | Analyst: GARGAR | Date Prep: Nov-14-10 17:00 | Tech: TRAWIL
Seq Number: 71562

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Sulfur, mol (S8) +	10544-50-0	U	2.00	1.00	mg/kg	U	1

Sample Id: **110510-144-10a** | Matrix: **SOLID/SOLID** | Date Received: **Nov-09-10 14:30**
Lab Sample Id: **24015-010** | Date Collected: **Nov-05-10 00:00** | % Moisture: **0.000**
Sample Depth: | Basis: **Wet**

Analytical Method: Elemental Sulfur by HPLC | Prep Method: LL-SULF-P
Date Analyzed: Nov-15-10 17:00 | Analyst: GARGAR | Date Prep: Nov-14-10 17:00 | Tech: TRAWIL
Seq Number: 71562

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Sulfur, mol (S8) +	10544-50-0	U	2.00	1.00	mg/kg	U	1

Sample Id: **14525-105-W1 D** | Matrix: **SOLID/SOLID** | Date Received: **Nov-09-10 14:30**
Lab Sample Id: **24005-001 D** | Date Collected: **Nov-02-10 00:00** | % Moisture: **0.000**
Sample Depth: | Basis: **Wet**

Analytical Method: Elemental Sulfur by HPLC | Prep Method: LL-SULF-P
Date Analyzed: Nov-15-10 16:17 | Analyst: GARGAR | Date Prep: Nov-14-10 17:00 | Tech: TRAWIL
Seq Number: 71562

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Sulfur, mol (S8) +	10544-50-0	U	2.00	1.00	mg/kg		1

Sample Id: **14525-105-W1 S** | Matrix: **SOLID/SOLID** | Date Received: **Nov-09-10 14:30**
Lab Sample Id: **24005-001 S** | Date Collected: **Nov-02-10 00:00** | % Moisture: **0.000**
Sample Depth: | Basis: **Wet**

Analytical Method: Elemental Sulfur by HPLC | Prep Method: LL-SULF-P
Date Analyzed: Nov-15-10 16:38 | Analyst: GARGAR | Date Prep: Nov-14-10 17:00 | Tech: TRAWIL
Seq Number: 71562

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Sulfur, mol (S8) +	10544-50-0	83	2.00	1.00	%		1

*

Results of liquid samples are reported on a wet-weight basis unless otherwise indicated. Results of solid samples are reported on a dry-weight basis unless otherwise indicated.

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Certificate of Analysis #: 24015

ENVIRON International Corp., Tampa, FL

DPW- Ft. Bragg

Sample Id: **14525-105-W1 SD** Matrix: **SOLID/SOLID** Date Received: **Nov-09-10 14:30**
Lab Sample Id: **24005-001 SD** Date Collected: **Nov-02-10 00:00** % Moisture: **0.000**
Sample Depth: Basis: **Wet**

Analytical Method: Elemental Sulfur by HPLC Prep Method: LL-SULF-P
Date Analyzed: Nov-15-10 18:03 Analyst: GARGAR Date Prep: Nov-14-10 17:00 Tech: TRAWIL
Seq Number: 71562

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Sulfur, mol (S8) +	10544-50-0	85	2.00	1.00	%		1

Sample Id: **110510-4-8a D** Matrix: **SOLID/SOLID** Date Received: **Nov-09-10 14:30**
Lab Sample Id: **24014-008 D** Date Collected: **Nov-05-10 00:00** % Moisture: **0.000**
Sample Depth: Basis: **Wet**

Analytical Method: Elemental Sulfur by HPLC Prep Method: LL-SULF-P
Date Analyzed: Nov-16-10 02:13 Analyst: GARGAR Date Prep: Nov-14-10 17:00 Tech: TRAWIL
Seq Number: 71562

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Sulfur, mol (S8) +	10544-50-0	U	2.00	1.00	mg/kg		1

Sample Id: **110510-4-8a S** Matrix: **SOLID/SOLID** Date Received: **Nov-09-10 14:30**
Lab Sample Id: **24014-008 S** Date Collected: **Nov-05-10 00:00** % Moisture: **0.000**
Sample Depth: Basis: **Wet**

Analytical Method: Elemental Sulfur by HPLC Prep Method: LL-SULF-P
Date Analyzed: Nov-16-10 02:34 Analyst: GARGAR Date Prep: Nov-14-10 17:00 Tech: TRAWIL
Seq Number: 71562

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Sulfur, mol (S8) +	10544-50-0	83	2.00	1.00	%		1

Sample Id: **110510-4-8a SD** Matrix: **SOLID/SOLID** Date Received: **Nov-09-10 14:30**
Lab Sample Id: **24014-008 SD** Date Collected: **Nov-05-10 00:00** % Moisture: **0.000**
Sample Depth: Basis: **Wet**

Analytical Method: Elemental Sulfur by HPLC Prep Method: LL-SULF-P
Date Analyzed: Nov-16-10 02:55 Analyst: GARGAR Date Prep: Nov-14-10 17:00 Tech: TRAWIL
Seq Number: 71562

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Sulfur, mol (S8) +	10544-50-0	83	2.00	1.00	%		1

*

Results of liquid samples are reported on a wet-weight basis unless otherwise indicated. Results of solid samples are reported on a dry-weight basis unless otherwise indicated.

LAKELAND LABORATORIES

Certificate of Analysis #: 24015

ENVIRON International Corp., Tampa, FL

DPW- Ft. Bragg

Sample Id: **29724-1-BKS**	Matrix: **SOLID**	Date Received:
Lab Sample Id: **29724-1-BKS**	Date Collected:	% Moisture:
Sample Depth:		Basis: **Wet**

Analytical Method: Elemental Sulfur by HPLC Prep Method: LL-SULF-P

Date Analyzed: Nov-15-10 15:34 Analyst: GARGAR Date Prep: Nov-14-10 17:00 Tech: TRAWIL

Seq Number: 71562

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Sulfur, mol (S8) +	10544-50-0	90	2.00	1.00	%		1

Sample Id: **29724-1-BLK**	Matrix: **SOLID**	Date Received:
Lab Sample Id: **29724-1-BLK**	Date Collected:	% Moisture:
Sample Depth:		Basis: **Wet**

Analytical Method: Elemental Sulfur by HPLC Prep Method: LL-SULF-P

Date Analyzed: Nov-15-10 15:13 Analyst: GARGAR Date Prep: Nov-14-10 17:00 Tech: TRAWIL

Seq Number: 71562

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Sulfur, mol (S8) +	10544-50-0	U	2.00	1.00	mg/kg	U	1

*

Results of liquid samples are reported on a wet-weight basis unless otherwise indicated. Results of solid samples are reported on a dry-weight basis unless otherwise indicated.

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Quality Control Sample Legend

Lakeland Labs Quality Control Sample Legend

This analytical report may include results for various quality assurance/quality control (QA/QC) samples prepared and analyzed as required within various sample preparation and analytical batches. In-house sample identification is based on the Lakeland Labs Work Order No. followed by the Work Order Item No. For example, the second item on Work Order No. 10000 would be assigned Lab Sample ID 10000-002. The QA/QC sample identifications are affixed with suffixes to differentiate them from the actual sample results. For QA/QC samples generated in-house such as method blanks, blank spikes, blank spike duplicates, etc., the preparation or analytical batch number is used instead of the Work Order No. To assist the data reviewer, the following legend provides information on the various QA/QC samples and the suffixes used to denote them:

- BLK Method Blank. A method blank, also known as a laboratory control blank (LCB), is a sample of a matrix similar to the batch of associated samples (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences are present at concentrations that impact the analytical results for sample analyses.

- BKS Blank Spike. A blank spike, also known as a calibration verification or laboratory control sample (LCS), is a sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes. It is generally used to establish intra-laboratory or analyst-specific precision and bias (accuracy) or to assess the performance of all or a portion of the measurement system. Successful analysis of the blank spike sample demonstrates an analytical system's ability to accurately measure target analyte concentrations.

- BSD Blank Spike Duplicate. A blank spike duplicate, also known as a laboratory control sample duplicate (LCSD), is a second blank spike sample, often bracketing a group of samples within a batch. Successful analysis of the blank spike duplicate sample demonstrates not only an analytical system's continuing ability to accurately measure target analyte concentrations, but also, when compared with the blank spike results, the system's precision.

- S Matrix Spike (MS). A matrix spike is a sample prepared by adding a known mass of target analyte(s) to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. Matrix spikes are used, for example, to determine the effect of the matrix on a method's recovery efficiency.

- SD Matrix Spike Duplicate (MSD). A matrix spike duplicate is a second replicate matrix spike prepared in the laboratory and analyzed to obtain a measure of the precision of the recovery for each analyte.

- D Matrix Duplicate (MD). A matrix duplicate is a second replicate matrix prepared in the laboratory and analyzed to obtain a measure of precision.

- MRL Method Reporting Limit. A method reporting limit standard is an analyte-free matrix similar to the sample matrices spiked with one or more of the target analytes at a concentration equal to or less than the method reporting limit (also known as the practical quantitation limit or PQL). Successful analysis of the MRL standard demonstrates the analytical system's ability to identify the spiked analytes of interest at the MRL/PQL.

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Flagging Criteria

FLORIDA Flagging Criteria

Data were reviewed by the Department Supervisor and QA Director

A Value reported is the mean (average) of two or more determinations. This code shall be used if the reported value is the average of results for two or more discrete and separate samples. These samples shall have been processed and analyzed independently. Do not use this code if the data are the result of replicate analysis on the same sample aliquot, extract or digestate.

B Results based upon colony counts outside the acceptable range. This code applies to microbiological tests and specifically to membrane filter colony counts. The code is to be used if the colony count is generated from a plate in which the total number of coliform colonies is outside the method indicated ideal range. This code is not to be used if a 100 mL sample has been filtered and the colony count is less than the lower value of the ideal range.

J Estimated value. A "J" value shall be accompanied by a narrative justification for its use. Where possible, the organization shall report whether the actual value is less than or greater than the reported value. A "J" value shall not be used as a substitute for K, L, M, T, V, or Y, however, if additional reasons exist for identifying the value as estimate (e.g., matrix spiked failed to meet acceptance criteria), the "J" code may be added to a K, L, M, T, V, or Y. The following are some examples of narrative descriptions that may accompany a "J" code: .

J1: No known quality control criteria exist for the component;

J2: The reported value failed to meet the established quality control criteria for either precision or accuracy (the specific failure must be identified);

J3: The sample matrix interfered with the ability to make any accurate determination;

J4: The data are questionable because of improper laboratory or field protocols

Q Sample held beyond the accepted holding time. This code shall be used if the value is derived from a sample that was prepared or analyzed after the approved holding time restrictions for sample preparation or analysis.

T Value reported is less than the laboratory method detection limit. The value is reported for informational purposes, only and shall not be used in statistical analysis.

U Indicates that the compound was analyzed for but not detected. This symbolshall be used to indicate that the specified component was not detected. The value associated with the qualifier shall be the laboratory method detection limit. Unless requested by the client, less than the method detection limit values shall not be reported (see "T" above).

V Indicates that the analyte was detected in both the sample and the associated method blank. Note: the value in the blank shall not be subtracted from associated samples.

Y The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

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Flagging Criteria

FLORIDA Flagging Criteria

*	Not analyzed due to interference
R	Significant rain in the past 48 hours. (Significant rain typically involves rain in excess of 1/2 inch within the past 48 hours.) This code shall be used when the rainfall might contribute to a lower than normal value.
!	Data deviate from historically established concentration ranges.
+	Analyte falls outside current scope of NELAP accreditation.
X	In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
D	The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
F	When reporting species: F indicates the female sex. Otherwise it indicates RPD value is outside the acceptable range.
L	Off-scale high. Actual value is known to be greater than value given. To be used when the concentration of the analyte is above the acceptable level for quantitation (exceeds the linear range or highest calibration standard) and the calibration curve is known to exhibit a negative deflection.
H	Value based on field kit determination; results may not be accurate. This code shall be used if a field screening test (i.e., field gas chromatograph data, immunoassay, vendor-supplied field kit, etc.) was used to generate the value and the field kit or method has not been recognized by the Department as equivalent to laboratory methods.

LAKELAND LABORATORIES

Sample Duplicate Recovery

Project Name: DPW- Ft. Bragg

Work Order #: 24015

Report Date: 17-NOV-10

Project ID: [redacted]

Lab Batch #: 71562
Date Analyzed: 11/15/2010
QC- Sample ID: 24005-001 D
Reporting Units: mg/kg

Date Prepared: 11/14/2010
Batch #: 1

Analyst: GARGAR
Matrix: Solid

Elemental Sulfur by HPLC	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Sulfur, mol (S8)	<1.00	<1.00	NC	30	

Lab Batch #: 71562
Date Analyzed: 11/16/2010
QC- Sample ID: 24014-008 D
Reporting Units: mg/kg

Date Prepared: 11/14/2010
Batch #: 1

Analyst: GARGAR
Matrix: Solid

Elemental Sulfur by HPLC	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Sulfur, mol (S8)	<1.00	<1.00	NC	30	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

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Form 3 - MS / MSD Recoveries

Project Name: DPW- Ft. Bragg

Report Date: 17-NOV-10

Project ID: [redacted]

Work Order # : 24015

Lab Batch ID: 71562 **QC- Sample ID:** 24005-001 S **Batch #:** 1 **Matrix:** Solid/Solid

Date Analyzed: 11/15/2010 **Date Prepared:** 11/14/2010 **Analyst:** GARGAR

Reporting Units: mg/kg

Elemental Sulfur by HPLC Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Sulfur, mol (S8)	<1.00	167	138	83	167	142	85	3	70-130	30	

Lab Batch ID: 71562 **QC- Sample ID:** 24014-008 S **Batch #:** 1 **Matrix:** Solid/Solid

Date Analyzed: 11/16/2010 **Date Prepared:** 11/14/2010 **Analyst:** GARGAR

Reporting Units: mg/kg

Elemental Sulfur by HPLC Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Sulfur, mol (S8)	<1.00	167	138	83	167	139	83	1	70-130	30	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(C-F)/(C+F)

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

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Blank Spike Recovery

Project Name: DPW- Ft. Bragg

Report Date: 17-NOV-10

Work Order #: 24015 **Project ID:** [redacted]

Lab Batch #: 71562 **Sample:** 29724-1-BKS **Matrix:** Solid

Date Analyzed: 11/15/2010 **Date Prepared:** 11/14/2010 **Analyst:** GARGAR

Reporting Units: mg/kg **Batch #:** 1

Elemental Sulfur by HPLC Analytes	BLANK /BLANK SPIKE RECOVERY STUDY					
	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Sulfur, mol (S8)	<1.00	167	150	90	70-130	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

ENVIRON

Chain of Custody

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ENVIRON International Corporation
10150 Highlands Manor Drive, Ste 440
Tampa, FL 33610
Tel: 813-628-4325 FAX: 813.628.4983

LL # 24015

Project name: DPW - Fort Bragg
Site Address [redacted] Fort Bragg, NC 28307
Site Owner: [redacted]
Phase # 2

Date: 11-9-2010

Sample ID	Date Collected	Time Collected	Description	Medium	Analysis Requested
110510-144-1a	11/5/10	NA	drywall sample, living room wall opp 1st flr bath	solid	Elemental S
110510-144-2a			drywall sample, 1st floor hallway opp. kitchen		
110510-144-3a			drywall sample, family rm. wall opp. kitchen		
110510-144-4a			drywall sample, stairway		
110510-144-5a			drywall sample, 2nd flr rear spare bedroom adj. to utility rm (partition wall between bedrooms)		
110510-144-6a			drywall sample, master bedroom wall opp. closet		
110510-144-7a			drywall sample, 2nd flr. hallway adjacent to laundry room		
110510-144-8a			drywall sample, 2nd flr. front spare bedroom adj.		

Shipped to: Lakeland Lab
Address: 1910 Harden Blvd
Suite 101
Lakeland, FL 33803

Shipment Method: courier Date:
Tracking number: n/a
Preservation: n/a

Collected by: Name and Date: originally collected by J. Poole - see original COC
Signature:

Comments:

Relinquished by: Name: Mary McKenzie
Signature: Mary McKenzie Date: 11-9-2010 Time: 1430

Received by: Name: W GANGLOFF
Signature: Date: 11-9-10 Time: 1430

Relinquished by: Name:
Signature: Date: Time:

Received by: Name:
Signature: Date: Time:

Relinquished by: Name:
Signature: Date: Time:

Received by: Name:
Signature: Date: Time:

ENVIRON

LL # 24015

Chain of Custody

Page 2 of 2

ENVIRON International Corporation
10150 Highlands Manor Drive, Ste 440
Tampa, FL 33610
Tel: 813-628-4325 FAX: 813.628.4983

Project name: DPW - Ft. Bragg
Site Address [redacted] Ft. Bragg, NC 28307
Site Owner: [redacted]
Phase # 2

Date: 11-9-2010

Sample ID	Date Collected	Time Collected	Description	Medium	Analysis Requested
110510-144-9a	11/5/10	NA	to laundry room (partition wall btwn bedrms) 2nd floor front spare bedroom adj. to spare bath (partition wall btwn bedroom and bath) - drywall sample	solid	Elemental S
110510-144-10a	↓	↓	garage wall opp. entry hallway - drywall sample	↓	↓

Shipped to: Lakeland Lab
Address: 1910 Harden Blvd, Suite 101, Lakeland, FL 33803

Shipment Method: Courier
Tracking number: n/a
Preservation: n/a

Date: 11-9-2010

Collected by: Name and Date: originally collected by J. Poole - see original COC
Signature:

Comments:

Relinquished by: Name: Mary McKenzie
Signature: Mary McKenzie Date: 11-9-2010 Time: 1430

Received by: Name: M Gangloff
Signature: Date: 11-9-10 Time: 1430

Relinquished by: Name:
Signature: Date: Time:

Received by: Name:
Signature: Date: Time:

Relinquished by: Name:
Signature: Date: Time:

Received by: Name:
Signature: Date: Time:

ENVIRON

10

January 19, 2011

[redacted]
Chief, Environmental Compliance Branch
Directorate of Public Works
Bldg. 3-1137, Butner Road
Fort Bragg, North Carolina 28310

Via email: [redacted]@us.army.mil

RE: [redacted] Fort Bragg, North Carolina 28307

Dear [redacted]

Pursuant to your request, ENVIRON has evaluated this home to determine whether there is evidence in the home of effects from defective gypsum wallboard. ENVIRON's evaluation included:

- the measurement of indoor and outdoor air using a calibrated direct-reading hydrogen sulfide analyzer
- the collection of indoor and outdoor ambient air samples for subsequent laboratory analysis
- examination of copper portions of plumbing and electrical components, including receptacles, switches and exposed copper wiring
- opening walls to inspect for labeling or manufacturing marks on wallboard
- collection of wallboard samples for analysis of elemental sulfur

On December 7, 2010, ENVIRON collected indoor and outdoor ambient air samples for subsequent laboratory analysis (Sample 120710-173SD-10 from the kitchen; Sample 120710-173SD-11 from the master bedroom; and Samples 120710-173SD-12 and 120710-173SD-13 from outdoors). ENVIRON delivered the air samples to Lakeland Labs, LLC, an independent accredited laboratory, which tested the air samples for the presence and concentration of 20 sulfur-containing compounds using American Society for Testing and Materials (ASTM) Method D-5504. As you can see from the attached laboratory results, Lakeland Labs, LLC did not report measureable levels of any of the 20 sulfur compounds. In addition, the calibrated direct-reading hydrogen sulfide analyzer detected no indoor concentrations of hydrogen sulfide above the levels detected outside of the home.

ENVIRON also inspected copper components associated with plumbing, as well as electrical components for discoloration and residue characteristic of corrosion from exposure to defective gypsum wallboard. No black surface accumulations were observed.

ENVIRON cut openings in walls to observe the unpainted side of wallboard for labeling or markings indicative of Chinese-manufactured wallboard. No markings associated with Chinese-manufactured wallboard were found. We did not detect odors characteristic of defective Chinese-manufactured wallboard in the home or while opening walls.

ENVIRON collected and submitted three wallboard samples to Lakeland Labs, LLC for analysis of elemental sulfur content. Elemental sulfur is a particular form of sulfur present at elevated levels in defective wallboard that produces corrosive sulfide gases. Analyzed samples were collected from the living room (120710-173SD-1b), the kitchen (120710-173SD-2b), and the master bedroom (120710-173SD-3b). The laboratory did not detect elemental sulfur in any of the samples, as shown in the attached report. None of these samples have the chemical composition associated with defective wallboard.

Based on these observations, ENVIRON concludes that there is no evidence of effects from defective wallboard in the subject home. Also, we did not find indications suggesting that the wallboard was manufactured in China. If you have any questions or concerns regarding our evaluation, please do not hesitate to contact us.

Sincerely,

Robert P. DeMott, PhD, DABT
Principal Toxicologist

James L. Poole, PhD, CIH
Principal Industrial Hygienist

Enclosure: Attachment 1, Laboratory Results

ATTACHMENT 1

[redacted]

LABORATORY RESULTS

LAKELAND
LABORATORIES

1910 Harden Boulevard
Suite 101
Lakeland, FL 33803
(863) 686-4271 Phone
(863) 686-4389 Fax

11 December 2010

ENVIRON International Corp.
ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

RE: Fort Bragg - 8 Homes
Project Location: [redacted]

Dear ENVIRON International Corp.:

This report details the analytical results of samples collected at the above-referenced project location as well as the results of any associated quality control samples. These samples were taken into custody by Lakeland Laboratories at **08-Dec-10 07:45.**

The work detailed herein has been conducted in accordance with generally accepted professional standards using recognized testing methodologies and quality control measures. It must be noted that the results detailed within this final report apply only to those samples submitted for analysis and reported here. When the NELAP logo is affixed to this report, these test results meet all requirements of the National Environmental Laboratory Accreditation Conference (NELAC).

Your samples will be retained by Lakeland Laboratories for a period of at least 30 days following sample receipt or until the longest of the preparation and/or analytical hold times expires, whichever is shorter. After that time, they will be properly disposed without further notice, unless there exists an explicit contractual agreement to the contrary. We reserve the right to return any unused samples, extracts, or related materials or solutions to you if we consider it necessary. Examples might include those samples identified as hazardous wastes, submissions where the sample sizes significantly exceed those required for analysis, samples containing controlled substances, etc.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full. We will maintain a copy of this report, electronic or otherwise, in our files for at least five years, after which time it may be destroyed without further notice, unless there exists an explicit contractual agreement to the contrary.

We thank you for selecting Lakeland Laboratories to serve your analytical needs. Should you have any questions or require additional information regarding any of the information in this report, please feel free to contact us at any time. We appreciate the opportunity to be of service.

Sincerely,

Technical Director
Mark Alessandroni

LAKELAND LABORATORIES

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(863) 686-4271 Phone
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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name:Fort Bragg - 8 Homes
Project Number:[none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
11-Dec-10 14:52

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
120710-173SD-10	1012075-01	Air	07-Dec-10 15:40	08-Dec-10 07:45
120710-173SD-11	1012075-02	Air	07-Dec-10 15:45	08-Dec-10 07:45
120710-173SD-12	1012075-03	Air	07-Dec-10 15:50	08-Dec-10 07:45
120710-173SD-13	1012075-04	Air	07-Dec-10 15:55	08-Dec-10 07:45

Comments on Sample Receipt:
Samples were delivered via overnight courier (Federal Express Airbill No. 8739 6797 3756) and received in the laboratory at 7:45 AM on December 8, 2010. The samples were analyzed the same day, within the mandated holding time of 24 hours. Unless noted elsewhere in the report, no deviations from the laboratory SOP were made.

Comments on Sample Analyses:
With the exception of two compounds, all compounds fell within acceptance criteria for relative percent difference (precision) and percent recovery (accuracy) in the matrix spike-matrix spike duplicate and blank spike-blank spike duplicate QA pairs. Isopropyl mercaptan exhibited a slightly high bias in the blank spike duplicate and the matrix spike. Diethyl sulfide exhibited a slightly high bias in the blank spike duplicate. A method reporting limit (MRL) standard was run and all target analytes were detected, confirming sensitivity of the analytical system.

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
11-Dec-10 14:52

120710-173SD-10
1012075-01 (Air)

Prepared: 08-Dec-10 08:00
Analyzed: 08-Dec-10 11:21

Lakeland Laboratories, LLC

Reduced Sulfur Compounds in Air by GC Batch: B012010

Analyte	Result	PQL	Units	Dilution	Method	Qualifiers
Hydrogen sulfide	U	5.00	ppbv	1	D5504-08	
Carbonyl Sulfide	U	5.00	ppbv	1	D5504-08	
Methyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Dimethyl Sulfide	U	5.00	ppbv	1	D5504-08	
Carbon Disulfide	U	5.00	ppbv	1	D5504-08	
Isopropyl Mercaptan	U	5.00	ppbv	1	D5504-08	
tert-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Propyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Methyl Sulfide	U	5.00	ppbv	1	D5504-08	
Thiophene	U	5.00	ppbv	1	D5504-08	
Isobutyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Diethyl Sulfide	U	5.00	ppbv	1	D5504-08	
3-Methyl Thiophene	U	5.00	ppbv	1	D5504-08	
Tetrahydrothiophene	U	5.00	ppbv	1	D5504-08	
Dimethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2-Ethyl Thiophene	U	5.00	ppbv	1	D5504-08	
Diethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2,5-Dimethyl Thiophene	U	5.00	ppbv	1	D5504-08	

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Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
11-Dec-10 14:52

120710-173SD-11
1012075-02 (Air)

Prepared: 08-Dec-10 08:00
Analyzed: 08-Dec-10 11:33

Lakeland Laboratories, LLC

Reduced Sulfur Compounds in Air by GC — Batch: B012010

Analyte	Result	PQL	Units	Dilution	Method	Qualifiers
Hydrogen sulfide	U	5.00	ppbv	1	D5504-08	
Carbonyl Sulfide	U	5.00	ppbv	1	D5504-08	
Methyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Dimethyl Sulfide	U	5.00	ppbv	1	D5504-08	
Carbon Disulfide	U	5.00	ppbv	1	D5504-08	
Isopropyl Mercaptan	U	5.00	ppbv	1	D5504-08	
tert-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Propyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Methyl Sulfide	U	5.00	ppbv	1	D5504-08	
Thiophene	U	5.00	ppbv	1	D5504-08	
Isobutyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Diethyl Sulfide	U	5.00	ppbv	1	D5504-08	
3-Methyl Thiophene	U	5.00	ppbv	1	D5504-08	
Tetrahydrothiophene	U	5.00	ppbv	1	D5504-08	
Dimethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2-Ethyl Thiophene	U	5.00	ppbv	1	D5504-08	
Diethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2,5-Dimethyl Thiophene	U	5.00	ppbv	1	D5504-08	

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10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
11-Dec-10 14:52

120710-173SD-12
1012075-03 (Air)

Prepared: 08-Dec-10 08:00
Analyzed: 08-Dec-10 12:00

Lakeland Laboratories, LLC

Reduced Sulfur Compounds in Air by GC — Batch: B012010

Analyte	Result	PQL	Units	Dilution	Method	Qualifiers
Hydrogen sulfide	U	5.00	ppbv	1	D5504-08	
Carbonyl Sulfide	U	5.00	ppbv	1	D5504-08	
Methyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Dimethyl Sulfide	U	5.00	ppbv	1	D5504-08	
Carbon Disulfide	U	5.00	ppbv	1	D5504-08	
Isopropyl Mercaptan	U	5.00	ppbv	1	D5504-08	
tert-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Propyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Methyl Sulfide	U	5.00	ppbv	1	D5504-08	
Thiophene	U	5.00	ppbv	1	D5504-08	
Isobutyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Diethyl Sulfide	U	5.00	ppbv	1	D5504-08	
3-Methyl Thiophene	U	5.00	ppbv	1	D5504-08	
Tetrahydrothiophene	U	5.00	ppbv	1	D5504-08	
Dimethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2-Ethyl Thiophene	U	5.00	ppbv	1	D5504-08	
Diethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2,5-Dimethyl Thiophene	U	5.00	ppbv	1	D5504-08	

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10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
11-Dec-10 14:52

120710-173SD-13
1012075-04 (Air)

Prepared: 08-Dec-10 08:00
Analyzed: 08-Dec-10 12:11

Lakeland Laboratories, LLC

Reduced Sulfur Compounds in Air by GC — Batch: B012010

Analyte	Result	PQL	Units	Dilution	Method	Qualifiers
Hydrogen sulfide	U	5.00	ppbv	1	D5504-08	
Carbonyl Sulfide	U	5.00	ppbv	1	D5504-08	
Methyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Dimethyl Sulfide	U	5.00	ppbv	1	D5504-08	
Carbon Disulfide	U	5.00	ppbv	1	D5504-08	
Isopropyl Mercaptan	U	5.00	ppbv	1	D5504-08	
tert-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Propyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Ethyl Methyl Sulfide	U	5.00	ppbv	1	D5504-08	
Thiophene	U	5.00	ppbv	1	D5504-08	
Isobutyl Mercaptan	U	5.00	ppbv	1	D5504-08	
n-Butyl Mercaptan	U	5.00	ppbv	1	D5504-08	
Diethyl Sulfide	U	5.00	ppbv	1	D5504-08	
3-Methyl Thiophene	U	5.00	ppbv	1	D5504-08	
Tetrahydrothiophene	U	5.00	ppbv	1	D5504-08	
Dimethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2-Ethyl Thiophene	U	5.00	ppbv	1	D5504-08	
Diethyl Disulfide	U	5.00	ppbv	1	D5504-08	
2,5-Dimethyl Thiophene	U	5.00	ppbv	1	D5504-08	

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Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
11-Dec-10 14:52

Reduced Sulfur Compounds in Air by GC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012010 - Prep Method: None										
Blank (B012010-BLK1)			**Prepared: 08-Dec-10 08:00**			**Analyzed: 08-Dec-10 09:26**				
Hydrogen sulfide	U	5.00	ppbv							
Carbonyl Sulfide	U	5.00	ppbv							
Methyl Mercaptan	U	5.00	ppbv							
Ethyl Mercaptan	U	5.00	ppbv							
Dimethyl Sulfide	U	5.00	ppbv							
Carbon Disulfide	U	5.00	ppbv							
Isopropyl Mercaptan	U	5.00	ppbv							
tert-Butyl Mercaptan	U	5.00	ppbv							
n-Propyl Mercaptan	U	5.00	ppbv							
Ethyl Methyl Sulfide	U	5.00	ppbv							
Thiophene	U	5.00	ppbv							
Isobutyl Mercaptan	U	5.00	ppbv							
n-Butyl Mercaptan	U	5.00	ppbv							
Diethyl Sulfide	U	5.00	ppbv							
3-Methyl Thiophene	U	5.00	ppbv							
Tetrahydrothiophene	U	5.00	ppbv							
Dimethyl Disulfide	U	5.00	ppbv							
2-Ethyl Thiophene	U	5.00	ppbv							
Diethyl Disulfide	U	5.00	ppbv							
2,5-Dimethyl Thiophene	U	5.00	ppbv							
LCS (B012010-BS1)			**Prepared: 08-Dec-10 08:00**			**Analyzed: 08-Dec-10 09:37**				
Hydrogen sulfide	27.6	5.00	ppbv	25.0		110	63-128 %			
Carbonyl Sulfide	28.0	5.00	ppbv	25.0		112	78-195 %			
Methyl Mercaptan	27.5	5.00	ppbv	25.0		110	58-131 %			
Ethyl Mercaptan	27.2	5.00	ppbv	25.0		109	52-138 %			
Dimethyl Sulfide	27.4	5.00	ppbv	25.0		110	75-118 %			
Carbon Disulfide	27.2	5.00	ppbv	25.0		109	71-186 %			

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
11-Dec-10 14:52

Reduced Sulfur Compounds in Air by GC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012010 - Prep Method: None										
LCS (B012010-BS1)			**Prepared: 08-Dec-10 08:00**				**Analyzed: 08-Dec-10 09:37**			
Isopropyl Mercaptan	27.7	5.00	ppbv	25.0		111	66-117 %			
tert-Butyl Mercaptan	27.2	5.00	ppbv	25.0		109	52-138 %			
n-Propyl Mercaptan	26.9	5.00	ppbv	25.0		108	61-128 %			
Ethyl Methyl Sulfide	28.6	5.00	ppbv	25.0		114	70-123 %			
Thiophene	27.8	5.00	ppbv	25.0		111	69-123 %			
Isobutyl Mercaptan	27.6	5.00	ppbv	25.0		110	57-127 %			
n-Butyl Mercaptan	27.6	5.00	ppbv	25.0		111	74-124 %			
Diethyl Sulfide	27.1	5.00	ppbv	25.0		109	63-116 %			
3-Methyl Thiophene	27.2	5.00	ppbv	25.0		109	72-121 %			
Tetrahydrothiophene	27.8	5.00	ppbv	25.0		111	60-128 %			
Dimethyl Disulfide	29.3	5.00	ppbv	25.0		117	67-124 %			
2-Ethyl Thiophene	28.7	5.00	ppbv	25.0		115	63-131 %			
Diethyl Disulfide	28.5	5.00	ppbv	25.0		114	57-135 %			
2,5-Dimethyl Thiophene	28.2	5.00	ppbv	25.0		113	58-136 %			
LCS Dup (B012010-BSD1)			**Prepared: 08-Dec-10 08:00**				**Analyzed: 08-Dec-10 11:44**			
Hydrogen sulfide	29.0	5.00	ppbv	25.0		116	63-128 %	5	30	
Carbonyl Sulfide	29.7	5.00	ppbv	25.0		119	78-195 %	6	30	
Methyl Mercaptan	28.6	5.00	ppbv	25.0		114	58-131 %	4	30	
Ethyl Mercaptan	28.9	5.00	ppbv	25.0		116	52-138 %	6	30	
Dimethyl Sulfide	27.8	5.00	ppbv	25.0		111	75-118 %	1	30	
Carbon Disulfide	28.7	5.00	ppbv	25.0		115	71-186 %	5	30	
Isopropyl Mercaptan	29.4	5.00	ppbv	25.0		118	66-117 %	6	30	J
tert-Butyl Mercaptan	28.0	5.00	ppbv	25.0		112	52-138 %	3	30	
n-Propyl Mercaptan	28.7	5.00	ppbv	25.0		115	61-128 %	6	30	
Ethyl Methyl Sulfide	28.8	5.00	ppbv	25.0		115	70-123 %	0.7	30	
Thiophene	29.0	5.00	ppbv	25.0		116	69-123 %	4	30	
Isobutyl Mercaptan	29.1	5.00	ppbv	25.0		116	57-127 %	5	30	

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
11-Dec-10 14:52

Reduced Sulfur Compounds in Air by GC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012010 - Prep Method: None										
LCS Dup (B012010-BSD1)		**Prepared:**	**08-Dec-10 08:00**		**Analyzed:**	**08-Dec-10 11:44**				
n-Butyl Mercaptan	28.7	5.00	ppbv	25.0		115	74-124 %	4	30	
Diethyl Sulfide	29.5	5.00	ppbv	25.0		118	63-116 %	8	30	J
3-Methyl Thiophene	28.4	5.00	ppbv	25.0		114	72-121 %	4	30	
Tetrahydrothiophene	28.8	5.00	ppbv	25.0		115	60-128 %	4	30	
Dimethyl Disulfide	29.9	5.00	ppbv	25.0		120	67-124 %	2	30	
2-Ethyl Thiophene	29.4	5.00	ppbv	25.0		118	63-131 %	2	30	
Diethyl Disulfide	28.9	5.00	ppbv	25.0		116	57-135 %	1	30	
2,5-Dimethyl Thiophene	29.0	5.00	ppbv	25.0		116	58-136 %	3	30	
Duplicate (B012010-DUP1)	**Source: 1012077-04**	**Prepared:**	**08-Dec-10 08:00**		**Analyzed:**	**08-Dec-10 13:52**				
Hydrogen sulfide	U	5.00	ppbv		U				30	
Carbonyl Sulfide	U	5.00	ppbv		U				30	
Methyl Mercaptan	U	5.00	ppbv		U				30	
Ethyl Mercaptan	U	5.00	ppbv		U				30	
Dimethyl Sulfide	U	5.00	ppbv		U				30	
Carbon Disulfide	U	5.00	ppbv		U				30	
Isopropyl Mercaptan	U	5.00	ppbv		U				30	
tert-Butyl Mercaptan	U	5.00	ppbv		U				30	
n-Propyl Mercaptan	U	5.00	ppbv		U				30	
Ethyl Methyl Sulfide	U	5.00	ppbv		U				30	
Thiophene	U	5.00	ppbv		U				30	
Isobutyl Mercaptan	U	5.00	ppbv		U				30	
n-Butyl Mercaptan	U	5.00	ppbv		U				30	
Diethyl Sulfide	U	5.00	ppbv		U				30	
3-Methyl Thiophene	U	5.00	ppbv		U				30	
Tetrahydrothiophene	U	5.00	ppbv		U				30	
Dimethyl Disulfide	U	5.00	ppbv		U				30	
2-Ethyl Thiophene	U	5.00	ppbv		U				30	

LAKELAND LABORATORIES

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(863) 686-4271 Phone
(863) 686-4389 Fax

ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
11-Dec-10 14:52

Reduced Sulfur Compounds in Air by GC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012010 - Prep Method: None										
Duplicate (B012010-DUP1)	**Source: 1012077-04**		**Prepared: 08-Dec-10 08:00**				**Analyzed: 08-Dec-10 13:52**			
Diethyl Disulfide	U	5.00	ppbv		U				30	
2,5-Dimethyl Thiophene	U	5.00	ppbv		U				30	
Matrix Spike (B012010-MS1)	**Source: 1012077-04**		**Prepared: 08-Dec-10 08:00**				**Analyzed: 08-Dec-10 14:04**			
Hydrogen sulfide	30.7	5.00	ppbv	25.0	U	123	63-128 %			
Carbonyl Sulfide	35.4	5.00	ppbv	25.0	U	142	78-195 %			
Methyl Mercaptan	29.0	5.00	ppbv	25.0	U	116	58-131 %			
Ethyl Mercaptan	29.5	5.00	ppbv	25.0	U	118	52-138 %			
Dimethyl Sulfide	29.4	5.00	ppbv	25.0	U	118	75-118 %			
Carbon Disulfide	34.0	5.00	ppbv	25.0	U	136	71-186 %			
Isopropyl Mercaptan	29.8	5.00	ppbv	25.0	U	119	66-117 %			J
tert-Butyl Mercaptan	29.2	5.00	ppbv	25.0	U	117	52-138 %			
n-Propyl Mercaptan	30.3	5.00	ppbv	25.0	U	121	61-128 %			
Ethyl Methyl Sulfide	29.0	5.00	ppbv	25.0	U	116	70-123 %			
Thiophene	28.2	5.00	ppbv	25.0	U	113	69-123 %			
Isobutyl Mercaptan	29.5	5.00	ppbv	25.0	U	118	57-127 %			
n-Butyl Mercaptan	28.9	5.00	ppbv	25.0	U	116	74-124 %			
Diethyl Sulfide	28.9	5.00	ppbv	25.0	U	115	63-116 %			
3-Methyl Thiophene	27.6	5.00	ppbv	25.0	U	110	72-121 %			
Tetrahydrothiophene	27.1	5.00	ppbv	25.0	U	108	60-128 %			
Dimethyl Disulfide	28.8	5.00	ppbv	25.0	U	115	67-124 %			
2-Ethyl Thiophene	29.4	5.00	ppbv	25.0	U	117	63-131 %			
Diethyl Disulfide	26.6	5.00	ppbv	25.0	U	107	57-135 %			
2,5-Dimethyl Thiophene	27.1	5.00	ppbv	25.0	U	108	58-136 %			
Matrix Spike Dup (B012010-MSD1)	**Source: 1012077-04**		**Prepared: 08-Dec-10 08:00**				**Analyzed: 08-Dec-10 14:24**			
Hydrogen sulfide	29.1	5.00	ppbv	25.0	U	116	63-128 %	5	30	
Carbonyl Sulfide	34.3	5.00	ppbv	25.0	U	137	78-195 %	3	30	

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Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
11-Dec-10 14:52

Reduced Sulfur Compounds in Air by GC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012010 - Prep Method: None										
Matrix Spike Dup (B012010-MSD1)	**Source: 1012077-04**	**Prepared:**	**08-Dec-10 08:00**		**Analyzed:**	**08-Dec-10 14:24**				
Methyl Mercaptan	27.7	5.00	ppbv	25.0	U	111	58-131 %	5	30	
Ethyl Mercaptan	28.7	5.00	ppbv	25.0	U	115	52-138 %	3	30	
Dimethyl Sulfide	28.3	5.00	ppbv	25.0	U	113	75-118 %	4	30	
Carbon Disulfide	33.2	5.00	ppbv	25.0	U	133	71-186 %	2	30	
Isopropyl Mercaptan	29.0	5.00	ppbv	25.0	U	116	66-117 %	3	30	
tert-Butyl Mercaptan	28.4	5.00	ppbv	25.0	U	113	52-138 %	3	30	
n-Propyl Mercaptan	29.0	5.00	ppbv	25.0	U	116	61-128 %	4	30	
Ethyl Methyl Sulfide	27.5	5.00	ppbv	25.0	U	110	70-123 %	5	30	
Thiophene	26.9	5.00	ppbv	25.0	U	108	69-123 %	5	30	
Isobutyl Mercaptan	28.9	5.00	ppbv	25.0	U	115	57-127 %	2	30	
n-Butyl Mercaptan	28.0	5.00	ppbv	25.0	U	112	74-124 %	3	30	
Diethyl Sulfide	28.0	5.00	ppbv	25.0	U	112	63-116 %	3	30	
3-Methyl Thiophene	26.6	5.00	ppbv	25.0	U	107	72-121 %	3	30	
Tetrahydrothiophene	25.8	5.00	ppbv	25.0	U	103	60-128 %	5	30	
Dimethyl Disulfide	27.9	5.00	ppbv	25.0	U	111	67-124 %	3	30	
2-Ethyl Thiophene	29.1	5.00	ppbv	25.0	U	116	63-131 %	0.8	30	
Diethyl Disulfide	25.7	5.00	ppbv	25.0	U	103	57-135 %	4	30	
2,5-Dimethyl Thiophene	26.5	5.00	ppbv	25.0	U	106	58-136 %	2	30	

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg - 8 Homes
Project Number: [none]
Project Location: [redacted]
Project Manager: ENVIRON International Corp.

Reported:
11-Dec-10 14:52

Notes and Definitions

J	Estimated Value
DET	Analyte DETECTED
U	Analyte NOT DETECTED at or above the MDL
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
PQL	Practical Quantitation Limit

Results of liquid samples are reported on a wet-weight basis unless otherwise indicated. Results of solid samples are reported on a dry-weight basis unless otherwise indicated.

LAKELAND LABORATORIES, LLC
1910 HARDEN BOULEVARD, SUITE 101
LAKELAND, FLORIDA 33803-1829
PHONE: (863) 686-4271 FAX: (863) 686-4389

Work Order # 1012075

Chain of Custody Record

Company: ENVIRON International Corp.	Project Name: FORT BRAGG - 8 HOMES	Page 1 of 1
Address: 10150 Highland Manor Drive, Suite 440, Tampa, FL 33610	Project #:	DEP Form #: 62-770.900(2)
	Project Manager: James L. Poole, PhD, CIH	Form Title: Chain of Custody Record
	Project Location: [redacted]	Effective Date: September 23, 1997
Phone: (813) 628-4325 Fax: (813) 628-4983	P. O. #:	FDEP Facility No.:
Sampled by [Print Name(s)] / Affiliation: James L. Poole, PhD, CIH/ENVIRON	Preservatives (see codes)	Project Name:
Sampler(s) Signature(s)	Analyses Requested	

Item No.	Field ID No.	Sampled Date	Sampled Time	Grab or Composite	Matrix (see codes)	Number of Containers	ASTM D5504-08	REQUESTED DUE DATE / / Remarks	Lab. No.
1	120710-1735A-10	12/07/2010	1540	G	A	1	X	kitchen	001
2	120710-1735B-11	"	1545	G	A	1	X	master bedroom	002
3	120710-1735C-12	"	1550	G	A	1	X	outdoor front	003
4	120710-1735D-13	↓	1555	G	A	1	X	outdoor rear	004

Shipment Method | <= Total Number of Containers

Out: / /	Via:	Item No.	Relinquished by / Affiliation	Date	Time	Accepted by / Affiliation	Date	Time
Returned: / /	Via:	1-4	ENVIRON	12/07/2010	1500	FEDEX 8739 6797 3756 ALL	12-7-10	1800
Additional Comments:		1-4	FEDEX 8739 6797 3756	12-8-10	0745		12-8-10	0745

Cooler No.(s) / Temperature(s) (°C)	Sampling Kit No.	Equipment ID No.
Ambient °C		

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) O = Other (specify)

PRESERVATIVE CODES: H = Hydrochloric acid + ice I = Ice only N = Nitric acid + ice S = Sulfuric acid + ice O = Other (specify)

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1910 Harden Boulevard
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16 December 2010

ENVIRON International Corp.
ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

RE: **Fort Bragg -**
Project Location: [redacted] **Fort Bragg, NC 28307**

Dear ENVIRON International Corp.:

This report details the analytical results of samples collected at the above-referenced project location as well as the results of any associated quality control samples. These samples were taken into custody by Lakeland Laboratories at **13-Dec-10 10:16.**

The work detailed herein has been conducted in accordance with generally accepted professional standards using recognized testing methodologies and quality control measures. It must be noted that the results detailed within this final report apply only to those samples submitted for analysis and reported here. When the NELAP logo is affixed to this report, these test results meet all requirements of the National Environmental Laboratory Accreditation Conference (NELAC).

Your samples will be retained by Lakeland Laboratories for a period of at least 30 days following sample receipt or until the longest of the preparation and/or analytical hold times expires, whichever is shorter. After that time, they will be properly disposed without further notice, unless there exists an explicit contractual agreement to the contrary. We reserve the right to return any unused samples, extracts, or related materials or solutions to you if we consider it necessary. Examples might include those samples identified as hazardous wastes, submissions where the sample sizes significantly exceed those required for analysis, samples containing controlled substances, etc.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full. We will maintain a copy of this report, electronic or otherwise, in our files for at least five years, after which time it may be destroyed without further notice, unless there exists an explicit contractual agreement to the contrary.

We thank you for selecting Lakeland Laboratories to serve your analytical needs. Should you have any questions or require additional information regarding any of the information in this report, please feel free to contact us at any time. We appreciate the opportunity to be of service.

Sincerely,

Technical Director
Jim Crawford For Mark Alessandroni

LAKELAND LABORATORIES

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted] - Fort Bragg, NC 28307
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 14:01

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
120710-173SD-1b	1012145-01	Drywall	10-Dec-10 00:00	13-Dec-10 10:16
120710-173SD-2b	1012145-02	Drywall	10-Dec-10 00:00	13-Dec-10 10:16
120710-173SD-3b	1012145-03	Drywall	10-Dec-10 00:00	13-Dec-10 10:16

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ENVIRON International Corp.
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Tampa, FL 33610

Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: Fort Bragg, NC 28307
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 14:01

120710-173SD-1b
1012145-01 (Drywall)

Prepared: 13-Dec-10 10:26
Analyzed: 15-Dec-10 16:15

Lakeland Laboratories, LLC

Batch: B012018

Analyte	Result	PQL	MDL	Units	Dilution	Method	Qualifiers
Elemental Sulfur by HPLC							
Elemental Sulfur	U	2.00	1.00	mg/kg	1	LL-SULFUR	

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted] Fort Bragg, NC 28307
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 14:01

120710-173SD-2b
1012145-02 (Drywall)

Prepared: 13-Dec-10 10:26
Analyzed: 15-Dec-10 16:36

Lakeland Laboratories, LLC

Batch: B012018

Analyte	Result	PQL	MDL	Units	Dilution	Method	Qualifiers
Elemental Sulfur by HPLC							
Elemental Sulfur	U	2.00	1.00	mg/kg	1	LL-SULFUR	

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg -
Project Number:
Project Location: [redacted] Fort Bragg, NC 28307
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 14:01

120710-173SD-3b
1012145-03 (Drywall)

Prepared: 13-Dec-10 10:26
Analyzed: 15-Dec-10 17:19

Analyte	Result	PQL	MDL	Units	Dilution	Method	Qualifiers
Lakeland Laboratories, LLC							
Elemental Sulfur by HPLC							Batch: B012018
Elemental Sulfur	U	2.00	1.00	mg/kg	1	LL-SULFUR	

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted] Fort Bragg, NC 28307
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 14:01

Elemental Sulfur by HPLC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012018 - Prep Method: NO PREP											
Blank (B012018-BLK1)			**Prepared: 13-Dec-10 10:26**				**Analyzed: 14-Dec-10 16:52**				
Elemental Sulfur	U	2.00	1.00	mg/kg							
LCS (B012018-BS1)			**Prepared: 13-Dec-10 10:26**				**Analyzed: 14-Dec-10 17:14**				
Elemental Sulfur	134	2.00	1.00	mg/kg	167		80	70-130 %			
Duplicate (B012018-DUP1)	**Source: 1012128-01**		**Prepared: 13-Dec-10 10:26**				**Analyzed: 14-Dec-10 17:56**				
Elemental Sulfur	U	2.00	1.00	mg/kg		U				30	
Duplicate (B012018-DUP2)	**Source: 1012136-02**		**Prepared: 13-Dec-10 10:26**				**Analyzed: 15-Dec-10 00:41**				
Elemental Sulfur	U	2.00	1.00	mg/kg		U				30	
Duplicate (B012018-DUP3)	**Source: 1012142-02**		**Prepared: 13-Dec-10 10:26**				**Analyzed: 15-Dec-10 12:42**				
Elemental Sulfur	U	2.00	1.00	mg/kg		U				30	
Matrix Spike (B012018-MS1)	**Source: 1012128-02**		**Prepared: 13-Dec-10 10:26**				**Analyzed: 14-Dec-10 19:00**				
Elemental Sulfur	130	2.00	1.00	mg/kg	167	U	78	70-130 %			
Matrix Spike (B012018-MS2)	**Source: 1012136-03**		**Prepared: 13-Dec-10 10:26**				**Analyzed: 15-Dec-10 01:23**				
Elemental Sulfur	133	2.00	1.00	mg/kg	167	U	80	70-130 %			
Matrix Spike (B012018-MS3)	**Source: 1012142-03**		**Prepared: 13-Dec-10 10:26**				**Analyzed: 15-Dec-10 13:46**				
Elemental Sulfur	152	2.00	1.00	mg/kg	167	U	91	70-130 %			
Matrix Spike Dup (B012018-MSD1)	**Source: 1012128-02**		**Prepared: 13-Dec-10 10:26**				**Analyzed: 14-Dec-10 19:21**				
Elemental Sulfur	133	2.00	1.00	mg/kg	167	U	80	70-130 %	2	30	
Matrix Spike Dup (B012018-MSD2)	**Source: 1012136-03**		**Prepared: 13-Dec-10 10:26**				**Analyzed: 15-Dec-10 01:45**				
Elemental Sulfur	137	2.00	1.00	mg/kg	167	U	82	70-130 %	3	30	

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted] Fort Bragg, NC 28307
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 14:01

Elemental Sulfur by HPLC - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B012018 - Prep Method: NO PREP											
Matrix Spike Dup (B012018-MSD3)	**Source: 1012142-03**		**Prepared: 13-Dec-10 10:26**			**Analyzed: 15-Dec-10 14:07**					
Elemental Sulfur	148	2.00	1.00	mg/kg	167	U	89	70-130 %	3	30	

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ENVIRON International Corp.
10150 Highland Manor Drive, Suite 440
Tampa, FL 33610

Project Name: Fort Bragg -
Project Number: [redacted]
Project Location: [redacted]- Fort Bragg, NC 28307
Project Manager: ENVIRON International Corp.

Reported:
16-Dec-10 14:01

Notes and Definitions

DET	Analyte DETECTED
U	Analyte NOT DETECTED at or above the MDL
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
PQL	Practical Quantitation Limit

Results of liquid samples are reported on a wet-weight basis unless otherwise indicated. Results of solid samples are reported on a dry-weight basis unless otherwise indicated.

ENVIRON 1012145

Chain of Custody

Page 1 of 1

ENVIRON International Corporation
10150 Highlands Manor Drive, Ste 440
Tampa, FL 33610
Tel: 813-628-4325 FAX: 813.628.4983

Project name: Fort Bragg (Chenega)
Site Address [redacted] Fort Bragg, NC 28307
Site Owner:
Phase # 2

Date: 12/10/10

Sample ID	Date Collected	Time Collected	Description	Medium	Analysis Requested
120710-1735D-1b	12.10.10		drywall sample-living room-south wall	Solid	elementalS
120710-1735D-2b	↓		drywall sample-kitchen-west wall	↓	elementalS
120710-1735D-3b	↓		drywall sample-master bedroom-east wall	↓	elementalS

Shipped to: Lakeland Labs
Address: 1910 Harden Blvd Suite 101, Lakeland, FL 33803

Shipment Method: pick-up
Tracking number:
Preservation:
Date:

Collected by: Name and Date: James L. Poole
Signature: (see original COC)

Comments: Side sampled for testing

Relinquished by: Name: Cindy Lyons
Signature:
Date: 12-13-10
Time: 10:16

Received by: Name: [illegible]
Signature:
Date: 12-13-10
Time: 10:16

Relinquished by: Name:
Signature:
Date:
Time:

Received by: Name:
Signature:
Date:
Time:

Relinquished by: Name:
Signature:
Date:
Time:

Received by: Name:
Signature:
Date:
Time: