



Aquatic Toxicity Testing & Metals Analysis

Product ID: Z-FOG

**Date of Report: August 6, 2010
Total Number of Pages: 25**

Report Prepared For:
FreshAWL, LLC
1950 Olivera Rd., Suite D
Concord, CA 94520
888-400-3295

Report Prepared By:
RespirTek, Inc.
12450 Shortcut Rd.
Bldg F
Biloxi, MS 39532
228-392-7977



Project ID: FRE-2251

Sample ID: Z-FOG

Date of Sample Receipt: July 1, 2010

Date Final Report Issued: August 6, 2010

Project Summary

The Z-FOG sample was received at RespirTek, Inc. on July 1, 2010. Two bottles of the sample were received in good condition. One bottle of sample was sent to AquaTOX Research, Inc. (AquaTOX) located in Syracuse, NY for acute aquatic toxicity testing on July 6, 2010. The product generated a 96-hr LC₅₀ value of 102 mg/L using fathead minnow species (*Pimephales promelas*).

The second bottle of sample was delivered to Micro-Methods Laboratory located in Ocean Springs, MS for metals analysis on July 6, 2010. The results are as follows:

Arsenic	ND
Cadmium	ND
Copper	ND
Lead	0.295 mg/kg
Nickel	ND
Selenium	ND
Zinc	1.20 mg/kg
Mercury	ND

ND: non-detect

The Z-FOG sample is hereafter referred to as FRE-2251. The complete data reports as generated by RespirTek's aforementioned affiliates are enclosed.

**ACUTE CHEMICAL TOXICITY TEST REPORT FORM - FRE2251
(FATHEAD MINNOW, PIMEPHALES PROMELAS)**

Facility: Respiritek, Inc. Laboratory
12450 Shortcut Rd Bldg F
Biloxi, MS 39532

Facility Contact: Jude Martin

Test Laboratory: AquaTox Research, Inc.
1201 East Fayette Street
Syracuse, NY 13210

Investigator(s): L. Tatum

Approved By: _____ July 27, 2010
Francis G. Doherty, Ph.D. Date
Aquatic Toxicologist

Chemical Toxicity Test Summary:

Test Organism: Pimephales promelas
Test Starting Date: 7/19/10 Completion Date: 7/23/10
ARI Test ID No. 07-19-10-01 ARI Notebook No. File
Test Result: 96-hr LC₅₀ = 102 mg/L (89.6-115)

AquaTox Research, Inc., adheres to the current industry standards in the performance of its work as set out in published guidelines. If we err, omit, or otherwise do not perform in accordance with the terms of the original proposal, we will gladly re-do the work at no additional cost, or will, at the client's option, refund fees charged for the work. The client agrees that AquaTox Research shall not be liable for damages to anyone arising in contract or tort actions; nor for any civil penalties arising under state or federal regulation; nor any other liability of whatever kind or nature, except for the repeat of work performed or refund of fees charged. In no event shall AquaTox Research be liable for any incidental or consequential damages. The client hereby waives the WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Chemical Toxicity Test Conditions:

Test Type	<u>96-Hour Static-Renewal</u>
Number of Chemical Treatments	<u>5</u>
Number of Control Treatments	<u>1</u>
Number of Replicates per treatment	<u>2</u>
Number of Test Organisms/Test Concentration	<u>20</u>
Volume of Test Chambers (Liters)	<u>~0.30</u>

Test Organism Source:

Cultured (Check) Other (Specify) _____
 Commercial Hatchery (Specify) Aquatox, Inc.
 Test Organism Age (days) 7
 Test Organism Mean Dry Weight (Control minnows only) 0.30 mg
 Test Organism Acclimation Period (days) 0

Methodology Summary:

Test was conducted in accordance with ASTM Standard E729-96 (2002) and EPA 821-R-02-012. Test solutions were renewed at 48 hours. Fish were fed a small quantity of brine prior to solution renewal.

Test Material: FRE-2251

Dilution Water: Natural (source) _____ (Collection Date) _____
 Reconstituted (Type) Moderately Hard
 Other (Specify) _____

Quality Assurance Summary:

Control Mortality: 0% ≤10% >10% (specify)
 Mean temp within ±2°C of the test temperature? Yes No
 Dissolved oxygen levels always >40% saturation? Yes No
 Loading factor for all exposure chambers ≤ to
 max allowed for the test type and temperature? Yes No

Reference Toxicity Test Summary:

Test Starting Date: 7/5/10 Completion Date: 7/7/10
 Test Organism: Pimephales promelas Other (specify): _____
 Test Organism Age (days) 13 Reference Toxicant: NaCl

48-hr LC₅₀ (mg/L): 7,825 95% CL: 7,353-8,327
 Cumulative mean LC₅₀ (\pm SD) for previous 20 tests: 8,410 \pm 388
 Current LC₅₀ within \pm 2SD of mean LC₅₀? Yes X No

ARI Reference Test ID No.: 07-05-10-01 ARI Notebook No.: File

Percent Survival Data:

Chemical ^a Conc. (mg/L)	Cumulative Mortality & Effects (%)			
	24 ^b HR	48 ^b HR	72 ^b HR	96 ^b HR
0	0	0	0	0
62.5	0	0	0	0
125	60	80	80	80
250	100	100	100	100
500	100	100	100	100
1,000	100	100	100	100
95% LCL	100	89.6	89.6	89.6
LC ₅₀ /EC ₅₀	117	102	102	102
95% UCL	136	115	115	115

^aLC₅₀=median lethal concentration, EC₅₀=median effective concentration, LCL=lower confidence limit, UCL=upper confidence limit.

^bLC₅₀, EC₅₀, and 95% confidence limits calculated with the non-parametric Spearman-Kärber procedure.

Physical and Chemical Parameters:

0 Hours Fresh

Test Conc. (mg/L)	Water Temp. (°C)	pH	Dissolved Oxygen (ppm)	Conductivity (mhos/cm)	Alkalinity (mg/l as CaCO ₃)	Hardness (mg/l as CaCO ₃)
0	20.8	7.28	8.4	407	92	120
62.5	20.8	7.43	8.4	394	88	120
250	20.8	7.53	8.4	399	88	120
1,000	20.8	7.62	8.3	412	101	120

24 Hours Aged

Test Conc. (mg/L)	Water Temp. (°C)	pH	Dissolved Oxygen (ppm)
0	20.6	-	-
62.5	20.5	-	-
250	20.6	6.98	7.4
1,000	20.6	7.15	7.2

48 Hours Aged

Test Conc. (mg/L)	Water Temp. (°C)	pH	Dissolved Oxygen (ppm)
0	20.8	7.23	7.8
62.5	20.5	7.15	7.5
250	-	-	-
1,000	-	-	-

48 Hours Fresh

Test Conc. (mg/L)	Water Temp. (°C)	pH	Dissolved Oxygen (ppm)	Conductivity (mhos/cm)
0	20.2	7.10	8.3	395
62.5	20.3	7.25	8.3	397
250	-	-	-	-
1,000	-	-	-	-

72 Hours Aged

Test Conc. (mg/L)	Water Temp. (°C)	pH	Dissolved Oxygen (ppm)
0	20.7	-	-
62.5	20.6	-	-
250	-	-	-
1,000	-	-	-

96 Hours Aged

Test Conc. (mg/L)	Water Temp. (°C)	pH	Dissolved Oxygen (ppm)
0	20.6	7.21	7.4
62.5	20.5	7.24	7.2
250	-	-	-
1,000	-	-	-

TEST SOLUTION PREPARATION CHART

Compound: FRE-2251 Test ID #: 07-19-10-01
 Date Sample Obtained: 7/8/10 Sample Handling: cabinet/ambient
 Physical State: lig Color: dark yellow/orange
 Precipitate Present? no Test Type: SA SRA
 Tech Init.: LT Date: 7/19/10

STOCK SOLUTION PREPARATION

2.001g 7/21/10 LT

Desired Weight of Sample: 2g Actual Weight of Sample: 1.999g
 Stock Soln. Solvent: RW
 Stock Soln. Volume: 2L Conc. of Sample in Solvent: 1,000mg/L
 Tech Init.: LT Date: 7/19/10

TEST SOLUTION PREPARATION

$\frac{\text{Testing Concentration Desired}}{\text{Stock Solution Concentration}} = \frac{\text{Volume of Stock Solution Desired}}{\text{Total Volume of Test Solution}}$

Test Soln. Solvent: RW

Treatment Conc. (mg/L)	Stock Soln. Vol. (ml)	Total Vol. (ml)	Tech. Init.	Date
<u>0</u>	<u>0</u>	<u>1000</u>	<u>LT</u>	<u>7/19/10</u>
<u>62.5</u>	<u>62.5</u>	↓	↓	↓
<u>125</u>	<u>125</u>			
<u>250</u>	<u>250</u>			
<u>500</u>	<u>500</u>			
<u>1000</u>	<u>1000</u>			

AQUATIC TOXICITY RAW DATA SHEET

Date: 7/19/10 Investigator: L. Tatum Page 1 of 1

Test ID #: 07-19-10-01 Chemical: FRE-2251

Test Species: Pimephales promelas Source: AquaTox, Inc.

Test Organism Lot #: PP0710/211 # Organisms/Vessel: 10

Volume Diluent/Vessel: ~400mls Time Start Test: 2:20PM CT 7/19/10

Vessel	Test Conc. (mg/L)	Stock Added (mls)	Observed Mortality (n)							
			7/20/10	7/21/10	7/22/10	7/23/10				
			24	48	72	96				
A1	0	0	0	0	0	0				
B1	0		0	0	0	0				
C1	62.5	62.5	0	0	0	0				
D1	62.5		0	0	0	0				
E1	125	125	6	2	0	0				
F1	125		6	2	0	0				
G1	250	250	10	-	-	-				
H1	250		10	-	-	-				
I1	500	500	10	-	-	-				
J1	500		10	-	-	-				
K1	1000	1000	10	-	-	-				
L1	1000		10	-	-	-				
Investigator Initials:			LT	LT	LT	LT				
Time:			11:00AM	1:00PM	2:35PM	1:45PM				

a Fish hatched 7/12/10 - 7 days old.
 b _____
 c _____
 d _____
 e _____

07-19-10-01 FRE-2251 v P. promelas 24-hr LC50 & EC50

INPUT DATA

IDENTIFIER	DOSE	NET RESPONSE	CHECK	OBSERVED	GROSS RESPONSE
	62.500000	.0000	.0000	20.	0.
	125.000000	60.0000	.0000	20.	12.
	250.000000	100.0000	.0000	20.	20.

LOG SPEARMAN-KARBER (PERCENT RESPONSE COMPUTED) ANALYSIS

	LOWER LIMIT	LD	UPPER LIMIT	LOG VARIANCE	X(0)	X(N+1)
LD-50	100.113956	116.629124	135.868694	.001145	62.500000	250.000000

VALUES USED IN LAST COMPUTATIONS

DOSE	# RESPONDING	% RESPONSE	# OBSERVED
62.500000	0	.000000	20
125.000000	12	.600000	20
250.000000	20	1.000000	20

07-19-10-01 FRE-2251 v P. promelas 48- to 96-hr LC50 & EC50

INPUT DATA

IDENTIFIER	DOSE	NET RESPONSE	CHECK	OBSERVED	GROSS RESPONSE
	62.500000	.0000	.0000	20.	0.
	125.000000	80.0000	.0000	20.	16.
	250.000000	100.0000	.0000	20.	20.

LOG SPEARMAN-KARBER (PERCENT RESPONSE COMPUTED) ANALYSIS

	LOWER LIMIT	LD	UPPER LIMIT	LOG VARIANCE	X(0)	X(N+1)
LD-50	89.630780	101.531550	115.012449	.000763	62.500000	250.000000

VALUES USED IN LAST COMPUTATIONS

DOSE	# RESPONDING	% RESPONSE	# OBSERVED
62.500000	0	.000000	20
125.000000	16	.800000	20
250.000000	20	1.000000	20

TOXICITY TEST CHEMISTRY

Test ID #: 07-19-10-01 Species: P. promelas

Chemical: FRE-2251 Page 1 of 2

Test Vessel	Test Conc. (mg/L)	Observation Time: <u>0hrs</u>				Observation Time: <u>24hrs aged</u>			
		T. (°C)	D.O. (ppm)	pH	Cond. (µmhos/cm)	T. (°C)	D.O. (ppm)	pH	Cond. (µmhos/cm)
<u>A1-B1</u>	<u>0</u>	<u>20.8</u>	<u>8.4</u>	<u>7.28</u>	<u>407</u>	<u>20.6</u>	<u>-</u>	<u>-</u>	_____
<u>C1-D1</u>	<u>62.5</u>	<u>20.8</u>	<u>8.4</u>	<u>7.43</u>	<u>394</u>	<u>20.5</u>	<u>-</u>	<u>-</u>	_____
<u>G1-H1</u>	<u>250</u>	<u>20.8</u>	<u>8.4</u>	<u>7.53</u>	<u>389</u>	<u>20.6</u>	<u>7.4</u>	<u>6.98</u>	_____
<u>K1-L1</u>	<u>1000</u>	<u>20.8</u>	<u>8.3</u>	<u>7.62</u>	<u>412</u>	<u>20.6</u>	<u>7.2</u>	<u>7.15</u>	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
Initials		<u>LT</u>	<u>LT</u>	<u>LT</u>	<u>LT</u>	<u>LT</u>	<u>LT</u>	<u>LT</u>	<u>LT</u>
Date		<u>7/19/10</u>	<u>7/19/10</u>	<u>7/19/10</u>	<u>7/19/10</u>	<u>7/20/10</u>	<u>7/20/10</u>	<u>7/20/10</u>	<u>7/20/10</u>

Test Vessel	Test Conc. (mg/L)	Observation Time: <u>48hrs aged</u>				Observation Time: <u>48hrs fresh</u>			
		T. (°C)	D.O. (ppm)	pH	Cond. (µmhos/cm)	T. (°C)	D.O. (ppm)	pH	Cond. (µmhos/cm)
<u>A1-B1</u>	<u>0</u>	<u>20.8</u>	<u>7.8</u>	<u>7.23</u>	_____	<u>20.2</u>	<u>8.3</u>	<u>7.10</u>	<u>395</u>
<u>C1-D1</u>	<u>62.5</u>	<u>20.5</u>	<u>7.8</u>	<u>7.15</u>	_____	<u>20.3</u>	<u>8.3</u>	<u>7.25</u>	<u>397</u>
<u>G1-H1</u>	<u>250</u>	<u>-</u>	<u>-</u>	<u>-</u>	_____	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
<u>K1-L1</u>	<u>1000</u>	<u>-</u>	<u>-</u>	<u>-</u>	_____	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
Initials		<u>LT</u>	<u>LT</u>	<u>LT</u>	<u>LT</u>	<u>LT</u>	<u>LT</u>	<u>LT</u>	<u>LT</u>
Date		<u>7/21/10</u>	<u>7/21/10</u>	<u>7/21/10</u>	<u>7/21/10</u>	<u>7/21/10</u>	<u>7/21/10</u>	<u>7/21/10</u>	<u>7/21/10</u>

CALCULATION OF SAMPLE ALKALINITY WORKSHEET

Test ID #: 07-19-10-01

Test Species: P. promelas

Page 1 of 1

Test Chemical: FRE-2251

Vessel	Test Conc. (mg/L)	Titrant (mls)	Normality (H ₂ SO ₄)	Constant	Sample Volume (mls)	Total Alkalinity (mg/L)	Exp. Time (Hrs)	Init. & Date
	0	21	0.022	(50,000)	(25)	92	0hrs	LT7/19/18
	62.5	(2.0)	(↓)	(50,000)	(↓)	88	↓	↓
	250	(2.0)	(↓)	(50,000)	(↓)	88	↓	↓
	1000	(2.3)	(↓)	(50,000)	(↓)	101	↓	↓
		()	()	(50,000)	()	=		
		()	()	(50,000)	()	=		
		()	()	(50,000)	()	=		
		()	()	(50,000)	()	=		
		()	()	(50,000)	()	=		
		()	()	(50,000)	()	=		
		()	()	(50,000)	()	=		
		()	()	(50,000)	()	=		
		()	()	(50,000)	()	=		
		()	()	(50,000)	()	=		
		()	()	(50,000)	()	=		

CALCULATION OF SAMPLE HARDNESS WORKSHEET

Test ID #: 07-19-10-01

Test Species: Pipromelas

Page 1 of 1

Test Chemical: FRE-2251

Vessel	Test Conc. (mg/l)	Titrant (mls)	Normality (EDTA)	Constant	Sample Volume (mls)	Total Hardness (mg/L)	Exp. Time (Hrs)	Init. & Date
	0	(3.0)	(0.020)	(50,000)	(25)	= 120	3	27/1/10
	625	(3.0)	(↓)	(50,000)	(↓)	= 120	↓	↓
	250	(3.0)	(↓)	(50,000)	(↓)	= 120	↓	↓
	1000	(3.0)	(↓)	(50,000)	(↓)	= 120	↓	↓
		()	()	(50,000)	()	=		
		()	()	(50,000)	()	=		
		()	()	(50,000)	()	=		
		()	()	(50,000)	()	=		
		()	()	(50,000)	()	=		
		()	()	(50,000)	()	=		
		()	()	(50,000)	()	=		
		()	()	(50,000)	()	=		
		()	()	(50,000)	()	=		
		()	()	(50,000)	()	=		
		()	()	(50,000)	()	=		

Respirtek, Inc. Laboratory
 12450 Shortcut Rd Bldg F Biloxi, MS 39532
 Phone: 228-392-7977 Fax: 228-392-7838
 Email: bjhook@respirtek.com

P.O. No.		Project Name		ANALYSES										Address Results To:					
		FRE-2251												<u>RESPIRTEK, INC.</u> <u>12450 SHORTCUT RD.</u> <u>BLDG. F</u> <u>BILOXI, MS 39532</u>					
Samplers: (Signatures)		1. <u>Andrew Cullen</u>												REMARKS					
		2. _____																	
		3. _____																	
Sample I.D.	Date	Time	C	G r a b	Coll By 1,2,3	No. of Con- tainers													
FRE-2251	7/6/10	1000	X		1	1											STANDARD TAT		
Relinquished by:		Date	Time	Received by:		Relinquished by:		Date	Time	Received by:									
<u>Andrew Cullen</u>		7-6-10	1000																
Relinquished by:		Date	Time	Received by:		Relinquished by:		Date	Time	Received For Laboratory by:									
								7/8/10	1:00PM	<u>Andrew Cullen</u>									
REMARKS: ALL SAMPLES ICED IN THE FIELD AND DURING TRANSPORT TO THE LAB. ___ YES ___ NO				Transported by:		DATE OF ANALYSIS:				ANALYSIS TO BE COMPLETED:									
						RECEIVED:				___ CALLOUT ___ NORMAL TURNAROUND PERIOD									
						COMPLETED:				___ PRIORITY (NO CALLOUT) ___ CALL WITH RESULTS UPON COMPLETION									
Original Copy - LAB				Copy - FILE															

9/16/10 HR. ACUTE TOX
FATHEAD MINNOW



6500 Sunplex Drive
Ocean Springs, MS 39564
228.875.6420 Phone
228.875.6423 Fax

July 19, 2010

Kelly Seidel

Work Order # : 1007049

Respirtek, Inc.
12450 Shortcut Road, Bldg F
Biloxi, MS 39532
RE: FRE-2251

Purchase Order #:

Enclosed are Micro-Methods Laboratory, Inc. results of analyses performed on samples received 07/06/10 15:45. If you have any questions concerning this report, please feel free to contact the office.

Sincerely,

A handwritten signature in black ink that reads "Harry P. Howell". The signature is written in a cursive, flowing style.

Harry P. Howell

President
Micro-Methods Laboratory, Inc.

DISCLAIMER

The results only relate to the items or the sample and/or samples received by the laboratory. This report shall not be reproduced except in full, without the approval of the laboratory. All test methods performed meet the requirements of NELAC 2003 Standards. Any variances and/or deviations specific to this analytical report are referenced in the lab report using qualifiers and detailed explanations found in the case narrative.

Respiritek, Inc.
 12450 Shortcut Road, Bldg F
 Biloxi MS, 39532

 Project: FRE-2251
 Project Number: [none]
 Project Manager: Kelly Seidel

 Reported:
 07/19/10 10:59

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date/Time Sampled	Sampled by	Date/Time Received
FRE-2251	1007049-01	Liquid	07/06/10 10:00	Lindsay Cullen	07/06/10 15:45

Sample Receipt Conditions

Date/Time Received: 7/6/2010 3:45:00PM

Shipped by: Client Delivery

Received by: Paul D. Gatchell

Submitted by: John Sparks

Date/Time Logged: 7/6/2010 4:27:00PM

Logged by: Paul D. Gatchell

 Cooler ID: Default Cooler

 Receipt Temperature: 8.00 °C
Custody Seals No

Received on Ice Yes

Containers Intact Yes

No Ice, Short Trip No

COC/Labels Agree Yes

Obvious Contamination No

Labels Complete Yes

Rush to meet HT No

COC Complete Yes

Respirtek, Inc.
12450 Shortcut Road, Bldg F
Biloxi MS, 39532

Project: FRE-2251
Project Number: [none]
Project Manager: Kelly Seidel

Reported:
07/19/10 10:59

CASE NARRATIVE SUMMARY

All reported results are within Micro-Methods Laboratory, Inc. defined laboratory quality control objectives unless detailed in narrative summary or identified as qualifications. NOTE: All results listed on this report are calculated on a wet weight basis (as received by the laboratory) unless otherwise noted in the analysis qualification sections.

Summary Comments: *No Summary Comments*

Metals Total SW 6010B-SW 6010B

Qualification:

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

Zinc
0G08014-MSD1

Mercury Total SW 7470A-SW 7470A

Qualification:

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

Mercury
0G14028-MS1, 0G14028-MSD1

RPD03 The RPD value for the sample duplicate or MS/MSD was outside if QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

Mercury
0G14028-MS1, 0G14028-MSD1

Respiretek, Inc.
 12450 Shortcut Road, Bldg F
 Biloxi MS, 39532

 Project: FRE-2251
 Project Number: [none]
 Project Manager: Kelly Seidel

 Reported:
 07/19/10 10:59

FRE-2251
1007049-01 (Liquid)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Notes
Metals										
Arsenic	ND	0.244	mg/kg	1	0G08014	AKS	07/08/10 09:30	07/09/10 16:13	SW 6010B	
Cadmium	ND	0.049	"	"	"	AKS	"	"	"	
Copper	ND	0.049	"	"	"	AKS	"	"	"	
Lead	0.295	0.244	"	"	"	AKS	"	"	"	
Nickel	ND	0.195	"	"	"	AKS	"	"	"	
Selenium	ND	0.244	"	"	"	AKS	"	"	"	
Zinc	1.20	0.098	"	"	"	AKS	"	"	"	
Mercury	ND	0.020	"	"	0G14028	AKS	07/13/10 13:30	07/13/10 18:48	SW 7470A	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Respirtek, Inc.
12450 Shortcut Road, Bldg F
Biloxi MS, 39532

Project: FRE-2251
Project Number: [none]
Project Manager: Kelly Seidel

Reported:
07/19/10 10:59

Metals - Quality Control

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0G08014 - EPA 3010A

Blank (0G08014-BLK1)

Prepared: 07/08/10 Analyzed: 07/09/10

Arsenic	ND	2.50	mg/kg							
Cadmium	ND	0.500	"							
Copper	ND	0.500	"							
Lead	ND	2.50	"							
Nickel	ND	2.00	"							
Selenium	ND	2.50	"							
Zinc	ND	1.00	"							

LCS (0G08014-BS1)

Prepared: 07/08/10 Analyzed: 07/09/10

Arsenic	9.74	2.50	mg/kg	10.0		97.4	85-115		20	
Cadmium	10.5	0.500	"	10.0		105	85-115		20	
Copper	10.1	0.500	"	10.0		101	85-115		20	
Lead	11.1	2.50	"	10.0		111	85-115		20	
Nickel	10.7	2.00	"	10.0		107	85-115		20	
Selenium	10.0	2.50	"	10.0		100	85-115		20	
Zinc	8.74	1.00	"	10.0		87.4	85-115		20	

LCS Dup (0G08014-BSD1)

Prepared: 07/08/10 Analyzed: 07/09/10

Arsenic	9.60	2.50	mg/kg	10.0		96.0	85-115	1.45	20	
Cadmium	10.3	0.500	"	10.0		103	85-115	1.71	20	
Copper	9.96	0.500	"	10.0		99.6	85-115	0.898	20	
Lead	11.2	2.50	"	10.0		112	85-115	0.737	20	
Nickel	10.2	2.00	"	10.0		102	85-115	5.28	20	
Selenium	9.77	2.50	"	10.0		97.7	85-115	2.50	20	
Zinc	9.16	1.00	"	10.0		91.6	85-115	4.78	20	

Matrix Spike (0G08014-MS1)

Source: 1007049-01

Prepared: 07/08/10 Analyzed: 07/09/10

Arsenic	0.769	0.245	mg/kg	0.979	ND	78.5	75-125		20	
Cadmium	0.860	0.049	"	0.979	ND	87.8	75-125		20	
Copper	0.892	0.049	"	0.979	0.030	88.0	75-125		20	
Lead	1.10	0.245	"	0.979	0.295	81.8	75-125		20	
Nickel	0.862	0.196	"	0.979	ND	88.0	75-125		20	
Selenium	1.16	0.245	"	0.979	ND	118	75-125		20	
Zinc	1.94	0.098	"	0.979	1.20	75.6	75-125		20	

Respirtek, Inc.
12450 Shortcut Road, Bldg F
Biloxi MS, 39532

Project: FRE-2251
Project Number: [none]
Project Manager: Kelly Seidel

Reported:
07/19/10 10:59

Metals - Quality Control

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0G08014 - EPA 3010A

Matrix Spike Dup (0G08014-MSD1)	Source: 1007049-01				Prepared: 07/08/10 Analyzed: 07/09/10					
Arsenic	0.773	0.246	mg/kg	0.985	ND	78.5	75-125	0.535	20	
Cadmium	0.841	0.049	"	0.985	ND	85.4	75-125	2.27	20	
Copper	0.907	0.049	"	0.985	0.030	89.1	75-125	1.67	20	
Lead	1.07	0.246	"	0.985	0.295	78.4	75-125	2.69	20	
Nickel	0.826	0.197	"	0.985	ND	83.9	75-125	4.20	20	
Selenium	1.12	0.246	"	0.985	ND	114	75-125	3.33	20	
Zinc	1.91	0.098	"	0.985	1.20	71.7	75-125	1.78	20	QM-05

Batch 0G14028 - SW 7470A

Blank (0G14028-BLK1)	Prepared & Analyzed: 07/13/10									
Mercury	ND	0.020	mg/kg							
LCS (0G14028-BS1)	Prepared & Analyzed: 07/13/10									
Mercury	0.103	0.020	mg/kg	0.100		103	85-115		25	
LCS Dup (0G14028-BSD1)	Prepared & Analyzed: 07/13/10									
Mercury	0.106	0.020	mg/kg	0.100		106	85-115	2.78	25	
Matrix Spike (0G14028-MS1)	Source: 1007049-01				Prepared & Analyzed: 07/13/10					
Mercury	0.0724	0.019	mg/kg	0.0969	ND	74.7	75-125		20	QM-05, RPD03
Matrix Spike Dup (0G14028-MSD1)	Source: 1007049-01				Prepared & Analyzed: 07/13/10					
Mercury	0.0490	0.019	mg/kg	0.0956	ND	51.3	75-125	38.6	20	QM-05, RPD03

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Respirtek, Inc.
12450 Shortcut Road, Bldg F
Biloxi MS, 39532

Project: FRE-2251
Project Number: [none]
Project Manager: Kelly Seidel

Reported:
07/19/10 10:59

Laboratory Accreditations/Certifications

Code	Description	Number	Expires
C01	La Environmental Lab Accreditation Program	01960	06/30/2011
C02	National Environmental Lab Accreditation Program		06/30/2011
C03	Ms Dept of Health (Coliform)	MS00007	11/25/2010
C04	Ms Dept of Health (Drinking Water Certificate)	MS00021-2009	12/31/2010
C05	Ms DEQ Lead Firm Certification	PBF-00000028	10/08/2010
C06	MsDEQ Asbestos Inspector : C.D. Bingham	ABI-00001348	04/22/2010
C07	MsDEQ Air Monitor : C.D. Bingham	AM-011572	04/23/2010
C08	MsDEQ Asbestos Inspector: C. W. Meins	ABI-00001821	09/04/2010
C09	MsDEQ Air Monitor : C.W. Meins	AM-011189	04/23/2011
C10	MsDEQ Asbestos Inspector : C.E.Harris	ABI-00002378	01/14/2011
C11	MsDEQ Air Monitor : C.E. Harris	ABM-00002015	10/30/2010
C12	MsDEQ Asbestos Inspector : H.P. Howell	ABI-00001345	04/22/2010
C13	MsDEQ Air Monitor: H.P. Howell	ABM-00001344	04/23/2010

Report Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the minimum reporting limit
NR	Not Reported
RPD	Relative Percent Difference
ICV	Initial Calibration Verfiication
CCV	Continuing Calibration Verification Standard
SSV	Secondary Source Verification Standard
LCS	Lab Control Spike - Lab matrix prepared with known concentration of analyte/s of interest analyzed by method.
MS	Matrix Spike - Sample prepared with known concentration of analyte/s of interest analyzed by method.
MSD	Matrix Spike Duplicate - Duplicate sample prepared with known concentration of anlyte/s of interest analyzed by method.
MRL	Minimum Reporting Limit
%REC	Percentage Recovery of known concentration added to matrix
Batch	Group of samples prepared for analysis not to exceed 20 samples.
Matrix	Material containing analyte/s of interest
Surrogate	Analyte added to sample to determine extraction efficiency of method.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Respirtek, Inc.
 12450 Shortcut Road, Bldg F
 Biloxi MS, 39532

Project: FRE-2251
 Project Number: [none]
 Project Manager: Kelly Seidel

Reported:
 07/19/10 10:59

Micro-Methods Lab, Inc.
 Sunplex Drive, Ocean Springs, MS 39564
 228-875-6420 • Fax: 228-875-6423

Chain of Custody / Analysis Request Form
 Print ALL Information. Put N/A in blanks not applicable

Field pH: _____ Tech: PL Time: 7/19/10 1545
 Field Temperature: _____
 Iced: No
 Sample Receipt Temperature: 8.0°C TA1

REPORT RESULTS TO: _____
 Company: Respirtek
 Name: Kelly Seidel

SEND INVOICE TO: SHRE
 Company: _____ PO#: _____
 Name: _____

Address: 12450 Shortcut Rd. Bldg. F
 City: Biloxi State: MS ZIP: 39532

Address: _____
 City: _____ State: _____ ZIP: _____

TEL: 392-2977 FAX: _____
 State: MS TEL: _____ FAX: _____

Sampled by: (Signature) [Signature] Project Name: FRE-2251
 (Print) LINDSAY CULLEN

Failure to complete shaded areas will hinder processing of samples.

Date of Sample Shipment: 7/16/10

The following turnaround times require lab approval:
 7-10 days 72 Hrs 48 Hrs
 24 Hrs Approved by _____

Standard turnaround time is 10 working days

TURNAROUND TIME: NORMAL TA1
 Date Results needed by: 7/16/10

For Lab Use Only Sample Number	Station Location / Sample ID	DATE	TIME	Sampling			# CONTAINERS
				C	O	G	
1.	<u>FRE-2251</u>	<u>7/16/10</u>	<u>1000</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>1</u>
2.							
3.							
4.							
5.							
6.							
7.							
8.							
9.							
10.							

107049

7/16/10 1000

METALS PER EPA 503

Released By: [Signature] Date & Time Released: 7-6-10
 Signature: _____
 Printed Name: LINDSAY CULLEN

Received By: [Signature] Date & Time Received: 7-6-10
 Signature: _____
 Printed Name: SEL SMITHS

Released By: [Signature] Date & Time Released: 7-6-10
 Signature: _____
 Printed Name: [Signature]

Received By: [Signature] Date & Time Received: 7/16/10
 Signature: _____
 Printed Name: [Signature]

Released By: [Signature] Date & Time Released: 7-6-10
 Signature: _____
 Printed Name: [Signature]

Received By: [Signature] Date & Time Received: 7-6-10
 Signature: _____
 Printed Name: [Signature]

Please indicate reporting requirements:
 1. Results Only (EPA Level I)
 2. Results & QC (EPA Level II)
 3. Results, QC and Raw Data (EPA Level III)