

CLEAR FORM

SAVE FORM

E-MAIL

Client ID #

2027.07

Name / Client / Address:

Northgate Environmental

300 Frank H. Ogawa Plaza, Suite

510

Oakland, CA 94612

MICRO ANALYTICAL LABORATORIES, INC.

5900 Hollis St., Suite M, Emeryville, CA 94608

(510) 653-0824 - (510) 653-1361 - FAX

Log in #

147227

Project

Tronox LLC

Asbestos (TEM) NIOSH 7400

Asbestos

Lead Only

Metals (Specify)

Mold, Non-Viable

Other (Specify)

Tel. (510) 839-0688

Fax (510) 839-4350

E-mail ted.splitter@ngem.com

Job No. 2027.07

Number of Samples

10

Turn-Around Time

3-5 DAYS

Micro ID # (For Lab Use Only)	Client Sample ID#	Description	Date Sampled	Time Sampled Start / Stop / Total Minutes	Average LPM	Total Liters	Filter Pore Size
01	RZ-B-18-11172010	Remediation Zone B (BM884018)	11/17/2010	6:00   14:10 490	2.0	980.00	0.80
02	FB-1-RZ-B-18-11172010	Remediation Zone B Field Blank (BM883976)	11/17/2010	:   : 0	0.0	0.00	0.80
03	11172010-RZ-D-NE	Remediation Zone D (BM884125)	11/17/2010	5:08   15:01 593	2.0	1,186.00	0.80
04	FB-2-RZ-D-11172010	Remediation Zone D Field Blank (BM884243)	11/17/2010	:   : 0	0.0	0.00	0.80
05	11192010-RZ-B-12	Remediation Zone B (BS823246)	11/19/2010	5:20   15:00 580	2.0	1,160.00	0.80
06	FB-2-11192010	Remediation Zone B Field Blank (BS823084)	11/19/2010	:   : 0	0.0	0.00	0.80
07	11182010-RZ-D-NW	Remediation Zone D (BS823104)	11/18/2010	5:15   16:05 650	2.0	1,300.00	0.80
08	FB-1-11182010	Remediation Zone D Field Blank (BS823109)	11/18/2010	:   : 0	0.0	0.00	0.80
09	11192010-RZ-D-16&17	Remediation Zone D (BS823095)	11/19/2010	5:54   15:07 553	2.0	1,106.00	0.80
10	FB-3-11192010	Remediation Zone B Field Blank (BS823080)	11/19/2010	:   : 0	0.0	0.00	0.80

Instructions / Comments:  Fax  E-mail To: ted.splitter@ngem.com; david.behnken@ngem.com

Sample Return: YES  NO  If "YES" is checked, samples will be returned to the client or archived at Micro Analytical if required. If "NO" is checked, solid samples may be disposed of within three months (one week for liquid samples, lab suspensions, and digestates).

Ronda S. Bailey *Ronda S. Bailey* Sampler's Signature / Name Note to Lab: If any samples are not acceptable, record reasons for rejection.

Ronda S. Bailey *Ronda S. Bailey* 11/23/10 Drop Box / Courier Received By *R* 11/23/10 11:09 Date / Time

Relinquished By \_\_\_\_\_ Date/Time \_\_\_\_\_ Received By \_\_\_\_\_ Date / Time \_\_\_\_\_

Client ID #  
2027.07  
Name / Client / Address:  
Northgate Environmental  
300 Frank H. Ogawa Plaza, Suite  
510  
Oakland, CA 94612  
  
Tel. (510) 839-0688  
Fax (510) 839-4350  
E-mail ted.splitter@ngem.com

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Log in # 147227

**Project**  
Tronox LLC

**Asbestos (TEM)** NIOSH 7400  
**Asbestos** \_\_\_\_\_  
**Lead Only** \_\_\_\_\_  
**Metals (Specify)** \_\_\_\_\_  
**Mold, Non-Viable** \_\_\_\_\_  
**Other (Specify)** \_\_\_\_\_

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10                              3-5 DAYS

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Tronox LLC

Asbestos (TEM) NIOSH 7400

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Mold, Non-Viable

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Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

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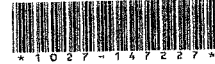
Sampler's Signature / Name: Ronda S. Bailey      Note to Lab: If any samples are not acceptable, record reasons for rejection.

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# MICRO ANALYTICAL LABORATORIES, INC.

## PHASE CONTRAST MICROSCOPY



1027  
Northgate Environmental Management  
300 Frank H. Ogawa Plaza  
Suite 510  
Oakland, CA 94612

PROJECT:  
TRONOX LLC  
JOB NO. 2027.07

Micro Log In **147227**  
Total Samples 10  
Date Sampled 11/17/2010  
Date Received 11/23/2010  
Date Analyzed 11/23/2010

Sample ID	Field Data	Lab Data	Fibers / cc	Limits	
				LCL	UCL
Client: <b>FB-2-11192010</b> Micro: 147227-06 11/19/2010 REMEDATION ZONE B FIELD BLANK (BS823084)	Time Rate Liters	Fibers 0 Fields 100 F/mm <sup>2</sup> < 7.0		LCL LOD CV	UCL LOQ 0.52
Client: <b>11182010-RZ-D-NW</b> Micro: 147227-07 11/18/2010 REMEDATION ZONE D (BS823104)	Time 650 Rate 2 Liters 1300.0	Fibers 21 Fields 100 F/mm <sup>2</sup> 26.8	<b>0.008</b>	LCL LOD CV	UCL 0.012 LOQ 0.030 0.28
Client: <b>FB-1-11182010</b> Micro: 147227-08 11/18/2010 REMEDATION ZONE D FIELD BLANK (BS823109)	Time Rate Liters	Fibers 0 Fields 100 F/mm <sup>2</sup> < 7.0		LCL LOD CV	UCL LOQ 0.52
Client: <b>FB-Ω11192010-RZ-D-16&amp;17</b> Micro: 147227-09 LM 11/19/2010 REMEDATION ZONE D (BS823095)	Time 553 Rate 2 Liters 1106.0	Fibers 8 Fields 100 F/mm <sup>2</sup> 10.2	<b>0.004</b>	LCL LOD CV	UCL 0.005 LOQ 0.035 0.26
Client: <b>FB-3-11192010</b> Micro: 147227-10 11/19/2010 REMEDATION ZONE B FIELD BLANK (BS823080)	Time Rate Liters	Fibers 0 Fields 100 F/mm <sup>2</sup> < 7.0		LCL LOD CV	UCL LOQ 0.52

Technical Supervisor: \_\_\_\_\_

Frank Raviola, M.S.

11/23/2010  
Date Reported

Analyst: \_\_\_\_\_

LM

AIHA IHLAP LABORATORY Accreditation / PAT ID No. 101768. Samples are analyzed using the NIOSH 7400 Method (NIOSH Manual of Analytical Methods, 4th Ed., Issue 2 of Rev. 3, 8/15/1994). The "A" Rules are used, unless otherwise noted. The limit of detection (LOD) is 7 fibers/mm<sup>2</sup>. Limits of quantification for optimal precision and accuracy are 100 (LOQ) and 1300 fibers/mm<sup>2</sup>. The 95% UCL and LCL (Upper and Lower Confidence Limits of the Two-sided 95% Confidence Interval) represent the highest and lowest expected concentrations (in fibers/cc) for a given fiber count, based on the reported concentration. Intralaboratory coefficients of variation (CV) for various fiber loadings are reported. Limits for compliance testing may be calculated by the client, using the CV and an appropriate regulatory standard, e.g. UCL = (Concentration + [1.645 x CV x Standard]). Concentrations are field blank-corrected. Time is in minutes, flow rate is in liters per minute. 8 Hour TWA: calculated time weighted average concentration (in fibers/cc) based on 8 hours. Note: due to method variability, 95% LCL and UCL for the TWA may vary significantly from reported TWA values. The 8 hour TWA may not be statistically accurate for actual total times less than 8 hours; zero concentration is assumed for remaining time if no information is given. Micro Analytical Laboratories, Inc. assumes no responsibility for clients' interpretation of any requested TWA data or calculations in this report. Unless otherwise indicated on this report, all required Quality Control samples have been determined to be in control prior to releasing these analytical results. This report shall not be reproduced without the approval of Micro Analytical Laboratories, Inc., shall not be reproduced except in full, and pertains only to the samples analyzed. Unless otherwise stated in this report, all samples were received in acceptable condition for analysis. Micro Analytical Laboratories, Inc. shall not be responsible for clients' deviations from any prescribed sampling parameters. Air volumes are based on client data. The laboratory's verifiability of results is limited to fibers per mm<sup>2</sup>. N/A = not applicable.

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Date Sampled 11/17/2010  
Date Received 11/23/2010  
Date Analyzed 11/23/2010

Sample ID	Field Data	Lab Data	Fibers / cc	Limits	
Client: <b>RZ-B-18-11172010</b> Micro: 147227-01 11/17/2010 <b>REMEDIAION ZONE B (BM884018)</b>	Time 490 Rate 2 Liters 980.0	Fibers 11 Fields 100 F/mm <sup>2</sup> 14.0	<b>0.006</b>	LCL 0.003 LOD 0.003 CV	UCL 0.008 LOQ 0.039 0.26
Client: <b>FB-1-RZ-B-18-11172010</b> Micro: 147227-02 11/17/2010 <b>REMEDIAION ZONE B FIELD BLANK (BM883976)</b>	Time Rate Liters	Fibers 0 Fields 100 F/mm <sup>2</sup> < 7.0		LCL LOD CV	UCL LOQ 0.52
Client: <b>11172010-RZ-D-NE</b> Micro: 147227-03 LM 11/17/2010 <b>REMEDIAION ZONE D (BM884125)</b>	Time 593 Rate 2 Liters 1186.0	Fibers 25.5 Fields 100 F/mm <sup>2</sup> 32.5	<b>0.011</b>	LCL 0.005 LOD 0.002 CV	UCL 0.016 LOQ 0.032 0.28
Client: <b>FB-2-RZ-D-11172010</b> Micro: 147227-04 11/17/2010 <b>REMEDIAION ZONE D FIELD BLANK (BM884243)</b>	Time Rate Liters	Fibers 0 Fields 100 F/mm <sup>2</sup> < 7.0		LCL LOD CV	UCL LOQ 0.52
Client: <b>11192010-RZ-B-12</b> Micro: 147227-05 11/19/2010 <b>REMEDIAION ZONE B (BS823246)</b>	Time 580 Rate 2 Liters 1160.0	Fibers 8.5 Fields 100 F/mm <sup>2</sup> 10.8	<b>0.004</b>	LCL 0.002 LOD 0.002 CV	UCL 0.005 LOQ 0.033 0.26

Technical Supervisor: \_\_\_\_\_

Frank Raviola, M.S.

12/3/2010  
Date Reported

Analyst: \_\_\_\_\_

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Date Analyzed 11/23/2010

Sample ID	Field Data	Lab Data	Fibers / cc	Limits
Client: <b>FB-2-11192010</b> Micro: 147227-06 11/19/2010 REMIEDIATION ZONE B FIELD BLANK (BS823084)	Time Rate Liters	Fibers 0 Fields 100 F/mm <sup>2</sup> < 7.0		LCL UCL LOD LOQ CV 0.52
Client: <b>11182010-RZ-D-NW</b> Micro: 147227-07 11/18/2010 REMIEDIATION ZONE D (BS823104)	Time 650 Rate 2 Liters 1300.0	Fibers 21 Fields 100 F/mm <sup>2</sup> 26.8	<b>0.008</b>	LCL UCL 0.004 0.012 LOD LOQ 0.002 0.030 CV 0.28
Client: <b>FB-1-11182010</b> Micro: 147227-08 11/18/2010 REMIEDIATION ZONE D FIELD BLANK (BS823109)	Time Rate Liters	Fibers 0 Fields 100 F/mm <sup>2</sup> < 7.0		LCL UCL LOD LOQ CV 0.52
Client: <b>FB-11192010-RZ-D-16&amp;17</b> Micro: 147227-09 LM 11/19/2010 REMIEDIATION ZONE D (BS823095)	Time 553 Rate 2 Liters 1106.0	Fibers 8 Fields 100 F/mm <sup>2</sup> 10.2	<b>0.004</b>	LCL UCL 0.002 0.005 LOD LOQ 0.002 0.035 CV 0.26
Client: <b>FB-3-11192010</b> Micro: 147227-10 11/19/2010 REMIEDIATION ZONE B FIELD BLANK (BS823080)	Time Rate Liters	Fibers 0 Fields 100 F/mm <sup>2</sup> < 7.0		LCL UCL LOD LOQ CV 0.52

Technical Supervisor: \_\_\_\_\_

Frank Raviola, M.S.

12/3/2010  
Date Reported

Analyst: \_\_\_\_\_

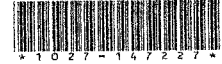
LM

AIHA IHLAP LABORATORY Accreditation / PAT ID No. 101768. Samples are analyzed using the NIOSH 7400 Method (NIOSH Manual of Analytical Methods, 4th Ed., Issue 2 of Rev. 3, 8/15/1994). The "A" Rules are used, unless otherwise noted. The limit of detection (LOD) is 7 fibers/mm<sup>2</sup>. Limits of quantification for optimal precision and accuracy are 100 (LOQ) and 1300 fibers/mm<sup>2</sup>. The 95% UCL and LCL (Upper and Lower Confidence Limits of the Two-sided 95% Confidence Interval) represent the highest and lowest expected concentrations (n fibers/cc) for a given fiber count, based on the reported concentration. Intra-laboratory coefficients of variation (CV) for various fiber loadings are reported. Limits for compliance testing may be calculated by the client, using the CV and an appropriate regulatory standard, e.g. UCL = (Concentration + [1.645 x CV x Standard]). Concentrations are field blank-corrected. Time is in minutes, flow rate is in liters per minute. 8 Hour TWA: calculated time weighted average concentration (n fibers/cc) based on 8 hours. Note: due to method variability, 95% LCL and UCL for the TWA may vary significantly from reported TWA values. The 8 hour TWA may not be statistically accurate for actual total times less than 8 hours; zero concentration is assumed for remaining time if no information is given. Micro Analytical Laboratories, Inc. assumes no responsibility for clients' interpretation of any requested TWA data or calculations in this report. Unless otherwise indicated on this report, all required Quality Control samples have been determined to be in control prior to releasing these analytical results. This report shall not be reproduced without the approval of Micro Analytical Laboratories, Inc., shall not be reproduced except in full, and pertains only to the samples analyzed. Unless otherwise stated in this report, all samples were received in acceptable condition for analysis. Micro Analytical Laboratories, Inc. shall not be responsible for clients' deviations from any prescribed sampling parameters. Air volumes are based on client data. The laboratory's verifiability of results is limited to fibers per mm<sup>2</sup>. N/A = not applicable.



# MICRO ANALYTICAL LABORATORIES, INC.

## PHASE CONTRAST MICROSCOPY



1027  
Northgate Environmental Management  
300 Frank H. Ogawa Plaza  
Suite 510  
Oakland, CA 94612

PROJECT:  
TRONOX LLC  
JOB NO. 2027.07

Micro Log In **147227**  
Total Samples 10  
Date Sampled 11/17/2010  
Date Received 11/23/2010  
Date Analyzed 11/23/2010

Sample ID	Field Data	Lab Data	Fibers / cc	Limits
Client: <b>RZ-B-18-11172010</b> Micro: 147227-01 11/17/2010 <b>REMEDIATION ZONE B (BM884018)</b>	Time 490 Rate 2 Liters 980.0	Fibers 11 Fields 100 F/mm <sup>2</sup> 14.0	<b>0.006</b>	LCL UCL 0.003 0.008 LOD LOQ 0.003 0.039 CV 0.26
Client: <b>FB-1-RZ-B-18-11172010</b> Micro: 147227-02 11/17/2010 <b>REMEDIATION ZONE B FIELD BLANK (BM883976)</b>	Time Rate Liters	Fibers 0 Fields 100 F/mm <sup>2</sup> < 7.0		LCL UCL LOD LOQ CV 0.52
Client: <b>11172010-RZ-D-NE</b> Micro: 147227-03 LM 11/17/2010 <b>REMEDIATION ZONE D (BM884125)</b>	Time 593 Rate 2 Liters 1186.0	Fibers 25.5 Fields 100 F/mm <sup>2</sup> 32.5	<b>0.011</b>	LCL UCL 0.005 0.016 LOD LOQ 0.002 0.032 CV 0.28
Client: <b>FB-2-RZ-D-11172010</b> Micro: 147227-04 11/17/2010 <b>REMEDIATION ZONE D FIELD BLANK (BM884243)</b>	Time Rate Liters	Fibers 0 Fields 100 F/mm <sup>2</sup> < 7.0		LCL UCL LOD LOQ CV 0.52
Client: <b>11192010-RZ-B-12</b> Micro: 147227-05 11/19/2010 <b>REMEDIATION ZONE B (BS823246)</b>	Time 580 Rate 2 Liters 1160.0	Fibers 8.5 Fields 100 F/mm <sup>2</sup> 10.8	<b>0.004</b>	LCL UCL 0.002 0.005 LOD LOQ 0.002 0.033 CV 0.26

Technical Supervisor: \_\_\_\_\_

Frank Raviola, M.S.

12/3/2010  
Date Reported

Analyst: \_\_\_\_\_

LM

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# MICRO ANALYTICAL LABORATORIES, INC.

## PHASE CONTRAST MICROSCOPY



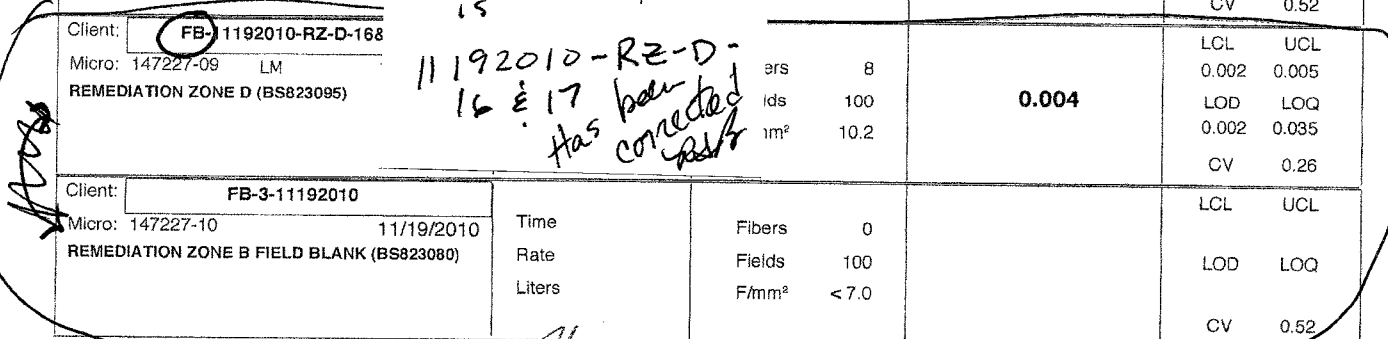
1027  
 Northgate Environmental Management  
 300 Frank H. Ogawa Plaza  
 Suite 510  
 Oakland, CA 94612

PROJECT:  
 TRONOX LLC  
 JOB NO. 2027.07

Micro Log In **147227**  
 Total Samples 10  
 Date Sampled 11/17/2010  
 Date Received 11/23/2010  
 Date Analyzed 11/23/2010

Sample ID	Field Data	Lab Data	Fibers / cc	Limits
Client: <b>FB-2-11192010</b> Micro: 147227-06 11/19/2010 REMEDIATION ZONE B FIELD BLANK (BS823084)	Time Rate Liters	Fibers 0 Fields 100 F/mm <sup>2</sup> < 7.0		LCL UCL LOD LOQ CV 0.52
Client: <b>11182010-RZ-D-NW</b> ✓ Micro: 147227-07 11/18/2010 REMEDIATION ZONE D (BS823104)	Time 650 Rate 2 Liters 1300.0	Fibers 21 Fields 100 F/mm <sup>2</sup> 26.8	<b>0.008</b>	LCL UCL 0.004 0.012 LOD LOQ 0.002 0.030 CV 0.28
Client: <b>FB-1-11182010</b> Micro: 147227-08 1 REMEDIATION ZONE D FIELD BLANK (E)		Fibers 0 Fields 100 m <sup>2</sup> < 7.0		LCL UCL LOD LOQ CV 0.52
Client: <b>FB-1192010-RZ-D-168</b> Micro: 147227-09 LM REMEDIATION ZONE D (BS823095)		Fibers 8 Fields 100 m <sup>2</sup> 10.2	<b>0.004</b>	LCL UCL 0.002 0.005 LOD LOQ 0.002 0.035 CV 0.26
Client: <b>FB-3-11192010</b> Micro: 147227-10 11/19/2010 REMEDIATION ZONE B FIELD BLANK (BS823080)	Time Rate Liters	Fibers 0 Fields 100 F/mm <sup>2</sup> < 7.0		LCL UCL LOD LOQ CV 0.52

*Sample ID  
12/20/10  
is  
1192010-RZ-D-  
16 & 17 have  
been corrected*

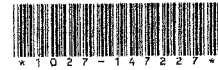


Technical Supervisor: Frank Raviola, M.S. Date Reported: 12/3/2010 Analyst: LM

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# MICRO ANALYTICAL LABORATORIES, INC.

## PHASE CONTRAST MICROSCOPY



1027  
Northgate Environmental Management  
300 Frank H. Ogawa Plaza  
Suite 510  
Oakland, CA 94612

PROJECT:  
TRONOX LLC  
JOB NO. 2027.07

Micro Log In **147227**  
Total Samples 10  
Date Sampled 11/17/2010  
Date Received 11/23/2010  
Date Analyzed 11/23/2010

Sample ID	Field Data	Lab Data	Fibers / cc	Limits
Client: <b>RZ-B-18-11172010</b> Micro: 147227-01 11/17/2010 REMEDIAION ZONE B (BM884018)	Time 490 Rate 2 Liters 980.0	Fibers 11 Fields 100 F/mm <sup>2</sup> 14.0	<b>0.006</b>	LCL 0.003 UCL 0.008 LOD 0.003 LOQ 0.039 CV 0.26
Client: <b>FB-1-RZ-B-18-11172010</b> Micro: 147227-02 11/17/2010 REMEDIAION ZONE B FIELD BLANK (BM883976)	Time Rate Liters	Fibers 0 Fields 100 F/mm <sup>2</sup> < 7.0		LCL UCL LOD LOQ CV 0.52
Client: <b>11172010-RZ-D-NE</b> Micro: 147227-03 LM 11/17/2010 REMEDIAION ZONE D (BM884125)	Time 593 Rate 2 Liters 1186.0	Fibers 25.5 Fields 100 F/mm <sup>2</sup> 32.5	<b>0.011</b>	LCL 0.005 UCL 0.016 LOD 0.002 LOQ 0.032 CV 0.28
Client: <b>FB-2-RZ-D-11172010</b> Micro: 147227-04 11/17/2010 REMEDIAION ZONE D FIELD BLANK (BM884243)	Time Rate Liters	Fibers 0 Fields 100 F/mm <sup>2</sup> < 7.0		LCL UCL LOD LOQ CV 0.52
Client: <b>11192010-RZ-B-12</b> Micro: 147227-05 11/19/2010 REMEDIAION ZONE B (BS823246)	Time 580 Rate 2 Liters 1160.0	Fibers 8.5 Fields 100 F/mm <sup>2</sup> 10.8	<b>0.004</b>	LCL 0.002 UCL 0.005 LOD 0.002 LOQ 0.033 CV 0.26

Technical Supervisor: \_\_\_\_\_

Frank Raviola, M.S.

11/23/2010  
Date Reported

Analyst: \_\_\_\_\_

LM

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PROJECT:  
TRONOX LLC  
JOB NO. 2027.07

Micro Log In **147227**  
Total Samples 10  
Date Sampled 11/17/2010  
Date Received 11/23/2010  
Date Analyzed 11/23/2010

Sample ID	Field Data	Lab Data	Fibers / cc	Limits	
Client: <b>FB-2-11192010</b> Micro: 147227-06 11/19/2010 REMEDATION ZONE B FIELD BLANK (BS823084)	Time Rate Liters	Fibers 0 Fields 100 F/mm <sup>2</sup> < 7.0		LCL LOD CV	UCL LOQ 0.52
Client: <b>11182010-RZ-D-NW</b> Micro: 147227-07 11/18/2010 REMEDATION ZONE D (BS823104)	Time 650 Rate 2 Liters 1300.0	Fibers 21 Fields 100 F/mm <sup>2</sup> 26.8	<b>0.008</b>	LCL LOD CV	UCL 0.012 LOQ 0.030 0.28
Client: <b>FB-1-11182010</b> Micro: 147227-08 11/18/2010 REMEDATION ZONE D FIELD BLANK (BS823109)	Time Rate Liters	Fibers 0 Fields 100 F/mm <sup>2</sup> < 7.0		LCL LOD CV	UCL LOQ 0.52
Client: <b>FB-Ω11192010-RZ-D-16&amp;17</b> Micro: 147227-09 LM 11/19/2010 REMEDATION ZONE D (BS823095)	Time 553 Rate 2 Liters 1106.0	Fibers 8 Fields 100 F/mm <sup>2</sup> 10.2	<b>0.004</b>	LCL LOD CV	UCL 0.005 LOQ 0.035 0.26
Client: <b>FB-3-11192010</b> Micro: 147227-10 11/19/2010 REMEDATION ZONE B FIELD BLANK (BS823080)	Time Rate Liters	Fibers 0 Fields 100 F/mm <sup>2</sup> < 7.0		LCL LOD CV	UCL LOQ 0.52

Technical Supervisor: \_\_\_\_\_

Frank Raviola, M.S.

11/23/2010  
Date Reported

Analyst: \_\_\_\_\_

LM

AIHA IHLPAC LABORATORY Accreditation / PAT ID No. 101768. Samples are analyzed using the NIOSH 7400 Method (NIOSH Manual of Analytical Methods, 4th Ed., Issue 2 of Rev. 3, 8/15/1994). The "A" Rules are used, unless otherwise noted. The limit of detection (LOD) is 7 fibers/mm<sup>2</sup>. Limits of quantification for optimal precision and accuracy are 100 (LOQ) and 1300 fibers/mm<sup>2</sup>. The 95% UCL and LCL (Upper and Lower Confidence Limits of the Two-sided 95% Confidence Interval) represent the highest and lowest expected concentrations (in fibers/cc) for a given fiber count, based on the reported concentration. Intra-laboratory coefficients of variation (CV) for various fiber loadings are reported. Limits for compliance testing may be calculated by the client, using the CV and an appropriate regulatory standard, e.g. UCL = (Concentration + [1.645 x CV x Standard]). Concentrations are field blank-corrected. Time is in minutes, flow rate is in liters per minute. 8 Hour TWA: calculated time weighted average concentration (in fibers/cc) based on 8 hours. Note: due to method variability, 95% LCL and UCL for the TWA may vary significantly from reported TWA values. The 8 hour TWA may not be statistically accurate for actual total times less than 8 hours; zero concentration is assumed for remaining time if no information is given. Micro Analytical Laboratories, Inc. assumes no responsibility for clients' interpretation of any requested TWA data or calculations in this report. Unless otherwise indicated on this report, all required Quality Control samples have been determined to be in control prior to releasing these analytical results. This report shall not be reproduced without the approval of Micro Analytical Laboratories, Inc., shall not be reproduced except in full, and pertains only to the samples analyzed. Unless otherwise stated in this report, all samples were received in acceptable condition for analysis. Micro Analytical Laboratories, Inc. shall not be responsible for clients' deviations from any prescribed sampling parameters. Air volumes are based on client data. The laboratory's verifiability of results is limited to fibers per mm<sup>2</sup>. N/A = not applicable.

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Micro Log In **147227**  
Total Samples 10  
Date Sampled 11/17/2010  
Date Received 11/23/2010  
Date Analyzed 11/23/2010

Sample ID		Field Data		Lab Data		Fibers / cc	Limits	
Client:	<b>RZ-B-18-11172010</b>	Time 490 Rate 2 Liters 980.0	Fibers 11 Fields 100 F/mm <sup>2</sup> 14.0	<b>0.006</b>	LCL	UCL	0.003	0.008
Micro:	147227-01 11/17/2010				LOD	LOQ		
<b>REMEDIAZIONE ZONE B (BM884018)</b>					0.003	0.039		
					CV	0.26		
Client:	<b>FB-1-RZ-B-18-11172010</b>	Time Rate Liters	Fibers 0 Fields 100 F/mm <sup>2</sup> < 7.0		LCL	UCL		
Micro:	147227-02 11/17/2010				LOD	LOQ		
<b>REMEDIAZIONE ZONE B FIELD BLANK (BM883976)</b>					CV	0.52		
Client:	<b>11172010-RZ-D-NE</b>	Time 593 Rate 2 Liters 1186.0	Fibers 25.5 Fields 100 F/mm <sup>2</sup> 32.5	<b>0.011</b>	LCL	UCL	0.005	0.016
Micro:	147227-03 LM 11/17/2010				LOD	LOQ		
<b>REMEDIAZIONE ZONE D (BM884125)</b>					0.002	0.032		
					CV	0.28		
Client:	<b>FB-2-RZ-D-11172010</b>	Time Rate Liters	Fibers 0 Fields 100 F/mm <sup>2</sup> < 7.0		LCL	UCL		
Micro:	147227-04 11/17/2010				LOD	LOQ		
<b>REMEDIAZIONE ZONE D FIELD BLANK (BM884243)</b>					CV	0.52		
Client:	<b>11192010-RZ-B-12</b>	Time 580 Rate 2 Liters 1160.0	Fibers 8.5 Fields 100 F/mm <sup>2</sup> 10.8	<b>0.004</b>	LCL	UCL	0.002	0.005
Micro:	147227-05 11/19/2010				LOD	LOQ		
<b>REMEDIAZIONE ZONE B (BS823246)</b>					0.002	0.033		
					CV	0.26		

Technical Supervisor: \_\_\_\_\_

Frank Raviola, M.S.

12/3/2010  
Date Reported

Analyst: \_\_\_\_\_

LM

AIHA IHLAP LABORATORY Accreditation / PAT ID No. 101788. Samples are analyzed using the NIOSH 7400 Method (NIOSH Manual of Analytical Methods, 4th Ed., Issue 2 of Rev. 3, 8/15/1994) The "A" Rules are used, unless otherwise noted. The limit of detection (LOD) is 7 fibers/mm<sup>2</sup>. Limits of quantification for optimal precision and accuracy are 100 (LOQ) and 1300 fibers/mm<sup>2</sup>. The 95% UCL and LCL (Upper and Lower Confidence Limits of the Two-sided 95% Confidence Interval) represent the highest and lowest expected concentrations (in fibers/cc) for a given fiber count, based on the reported concentration. Intralaboratory coefficients of variation (CV) for various fiber loadings are reported. Limits for compliance testing may be calculated by the client, using the CV and an appropriate regulatory standard, e.g. UCL = (Concentration + [1.645 x CV x Standard]). Concentrations are field blank-corrected. Time is in minutes, flow rate is in liters per minute. 8 Hour TWA: calculated time weighted average concentration (in fibers/cc) based on 8 hours. Note: due to method variability, 95% LCL and UCL for the TWA may vary significantly from reported TWA values. The 8 hour TWA may not be statistically accurate for actual total times less than 8 hours; zero concentration is assumed for remaining time if no information is given. Micro Analytical Laboratories, Inc. assumes no responsibility for clients' interpretation of any requested TWA data or calculations in this report. Unless otherwise indicated on this report, all required Quality Control samples have been determined to be in control prior to releasing these analytical results. This report shall not be reproduced without the approval of Micro Analytical Laboratories, Inc., shall not be reproduced except in full, and pertains only to the samples analyzed. Unless otherwise stated in this report, all samples were received in acceptable condition for analysis. Micro Analytical Laboratories, Inc. shall not be responsible for clients' deviations from any prescribed sampling parameters. All volumes are based on client data. The laboratory's verifiability of results is limited to fibers per mm<sup>2</sup>. N/A = not applicable.

# MICRO ANALYTICAL LABORATORIES, INC.

## PHASE CONTRAST MICROSCOPY

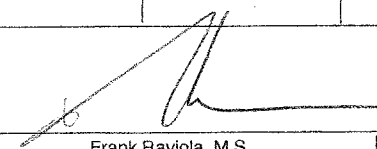


1027  
Northgate Environmental Management  
300 Frank H. Ogawa Plaza  
Suite 510  
Oakland, CA 94612

PROJECT:  
TRONOX LLC  
JOB NO. 2027.07

Micro Log In **147227**  
Total Samples 10  
Date Sampled 11/17/2010  
Date Received 11/23/2010  
Date Analyzed 11/23/2010

Sample ID	Field Data	Lab Data	Fibers / cc	Limits
Client: <b>FB-2-11192010</b> Micro: 147227-06 11/19/2010 <b>REMEDIAION ZONE B FIELD BLANK (BS823084)</b>	Time Rate Liters	Fibers 0 Fields 100 F/mm <sup>2</sup> < 7.0		LCL UCL LOD LOQ CV 0.52
Client: <b>11182010-RZ-D-NW</b> Micro: 147227-07 11/18/2010 <b>REMEDIAION ZONE D (BS823104)</b>	Time 650 Rate 2 Liters 1300.0	Fibers 21 Fields 100 F/mm <sup>2</sup> 26.8	<b>0.008</b>	LCL UCL 0.004 0.012 LOD LOQ 0.002 0.030 CV 0.28
Client: <b>FB-1-11182010</b> Micro: 147227-08 11/18/2010 <b>REMEDIAION ZONE D FIELD BLANK (BS823109)</b>	Time Rate Liters	Fibers 0 Fields 100 F/mm <sup>2</sup> < 7.0		LCL UCL LOD LOQ CV 0.52
Client: <b>FB-11192010-RZ-D-16&amp;17</b> Micro: 147227-09 LM 11/19/2010 <b>REMEDIAION ZONE D (BS823095)</b>	Time 553 Rate 2 Liters 1106.0	Fibers 8 Fields 100 F/mm <sup>2</sup> 10.2	<b>0.004</b>	LCL UCL 0.002 0.005 LOD LOQ 0.002 0.035 CV 0.26
Client: <b>FB-3-11192010</b> Micro: 147227-10 11/19/2010 <b>REMEDIAION ZONE B FIELD BLANK (BS823080)</b>	Time Rate Liters	Fibers 0 Fields 100 F/mm <sup>2</sup> < 7.0		LCL UCL LOD LOQ CV 0.52

Technical Supervisor: 

Frank Raviola, M.S.

12/3/2010  
Date Reported

Analyst: LM

AIHA IHLAP LABORATORY Accreditation / PAT ID No. 101766. Samples are analyzed using the NIOSH 7400 Method (NIOSH Manual of Analytical Methods, 4th Ed., Issue 2 of Rev. 3, 8/15/1994). The "A" Rules are used, unless otherwise noted. The limit of detection (LOD) is 7 fibers/mm<sup>2</sup>. Limits of quantification for optimal precision and accuracy are 100 (LOQ) and 1300 fibers/mm<sup>2</sup>. The 95% UCL and LCL (Upper and Lower Confidence Limits of the Two-sided 95% Confidence Interval) represent the highest and lowest expected concentrations (in fibers/cc) for a given fiber count, based on the reported concentration. Intralaboratory coefficients of variation (CV) for various fiber loadings are reported. Limits for compliance testing may be calculated by the client, using the CV and an appropriate regulatory standard, e.g. UCL = [Concentration + (1.645 x CV x Standard)]. Concentrations are field blank-corrected. Time is in minutes, flow rate is in liters per minute. 8 Hour TWA: calculated time weighted average concentration (in fibers/cc) based on 8 hours. Note: due to method variability, 95% LCL and UCL for the TWA may vary significantly from reported TWA values. The 8 hour TWA may not be statistically accurate for actual total times less than 8 hours; zero concentration is assumed for remaining time if no information is given. Micro Analytical Laboratories, Inc. assumes no responsibility for clients' interpretation of any requested TWA data or calculations in this report. Unless otherwise indicated on this report, all required Quality Control samples have been determined to be in control prior to releasing these analytical results. This report shall not be reproduced without the approval of Micro Analytical Laboratories, Inc., shall not be reproduced except in full, and pertains only to the samples analyzed. Unless otherwise stated in this report, all samples were received in acceptable condition for analysis. Micro Analytical Laboratories, Inc. shall not be responsible for clients' deviations from any prescribed sampling parameters. All volumes are based on client data. The laboratory's verifiability of results is limited to fibers per mm<sup>2</sup>. N/A = not applicable.

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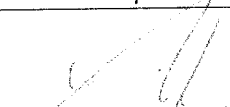
## PHASE CONTRAST MICROSCOPY

1027  
Northgate Environmental Management  
300 Frank H. Ogawa Plaza  
Suite 510  
Oakland, CA 94612

PROJECT:  
TRONOX LLC  
JOB NO. 2027.07

Micro Log In **147227**  
Total Samples 10  
Date Sampled 11/17/2010  
Date Received 11/23/2010  
Date Analyzed 11/23/2010

Sample ID	Field Data	Lab Data	Fibers / cc	Limits	
Client: <b>RZ-B-18-11172010</b> Micro: 147227-01 11/17/2010 REMEDIATION ZONE B (BM884018)	Time 490 Rate 2 Liters 980.0	Fibers 11 Fields 100 F/mm <sup>2</sup> 14.0	<b>0.006</b>	LCL 0.003 UCL 0.008 LOD 0.003 LOQ 0.039 CV 0.26	
Client: <b>FB-1-RZ-B-18-11172010</b> Micro: 147227-02 11/17/2010 REMEDIATION ZONE B FIELD BLANK (BM883978)	Time Rate Liters	Fibers 0 Fields 100 F/mm <sup>2</sup> < 7.0		LCL UCL LOD LOQ CV 0.52	
Client: <b>11172010-RZ-D-NE</b> Micro: 147227-03 LM 11/17/2010 REMEDIATION ZONE D (BM884125)	Time 593 Rate 2 Liters 1186.0	Fibers 25.5 Fields 100 F/mm <sup>2</sup> 32.5	<b>0.011</b>	LCL 0.005 UCL 0.016 LOD 0.002 LOQ 0.032 CV 0.28	
Client: <b>FB-2-RZ-D-11172010</b> Micro: 147227-04 11/17/2010 REMEDIATION ZONE D FIELD BLANK (BM884243)	Time Rate Liters	Fibers 0 Fields 100 F/mm <sup>2</sup> < 7.0		LCL UCL LOD LOQ CV 0.52	
Client: <b>11192010-RZ-B-12</b> Micro: 147227-05 11/19/2010 REMEDIATION ZONE B (BS823246)	Time 580 Rate 2 Liters 1160.0	Fibers 8.5 Fields 100 F/mm <sup>2</sup> 10.8	<b>0.004</b>	LCL 0.002 UCL 0.005 LOD 0.002 LOQ 0.033 CV 0.26	

Technical Supervisor: 

Frank Raviola, M.S.

12/3/2010  
Date Reported

Analyst: LM

LM

AIHA IHLP LABORATORY Accreditation / PAT ID No. 101768. Samples are analyzed using the NIOSH 7400 Method (NIOSH Manual of Analytical Methods, 4th Ed., Issue 2 of Rev. 3, 8/15/1994). The "A" Rules are used, unless otherwise noted. The limit of detection (LOD) is 7 fibers/mm<sup>2</sup>. Limits of quantification for optimal precision and accuracy are 100 (LOQ) and 1300 fibers/mm<sup>2</sup>. The 95% UCL and LCL (Upper and Lower Confidence Limits of the Two-sided 95% Confidence Interval) represent the highest and lowest expected concentrations (in fibers/cc) for a given fiber count, based on the reported concentration. Intra-laboratory coefficients of variation (CV) for various fiber loadings are reported. Limits for compliance testing may be calculated by the client, using the CV and an appropriate regulatory standard, e.g. UCL = (Concentration + [1.645 x CV x Standard]). Concentrations are field blank-corrected. Time is in minutes, flow rate is in liters per minute. 8 Hour TWA: calculated time weighted average concentration (in fibers/cc) based on 8 hours. Note: due to method variability, 95% LCL and UCL for the TWA may vary significantly from reported TWA values. The 8 hour TWA may not be statistically accurate for actual total times less than 8 hours; zero concentration is assumed for remaining time if no information is given. Micro Analytical Laboratories, Inc. assumes no responsibility for clients' interpretation of any requested TWA data or calculations in this report. Unless otherwise indicated on this report, all required Quality Control samples have been determined to be in control prior to releasing these analytical results. This report shall not be reproduced without the approval of Micro Analytical Laboratories, Inc., shall not be reproduced, except in full, and pertains only to the samples analyzed. Unless otherwise stated in this report, all samples were received in acceptable condition for analysis. Micro Analytical Laboratories, Inc. shall not be responsible for clients' deviations from any prescribed sampling parameters. Air volumes are based on client data. The laboratory's variability of results is limited to fibers per mm<sup>2</sup>. N/A = not applicable.

# MICRO ANALYTICAL LABORATORIES, INC.

## PHASE CONTRAST MICROSCOPY



1027  
Northgate Environmental Management  
300 Frank H. Ogawa Plaza  
Suite 510  
Oakland, CA 94612

PROJECT:  
TRONOX LLC  
JOB NO. 2027.07

Micro Log In **147227**  
Total Samples 10  
Date Sampled 11/17/2010  
Date Received 11/23/2010  
Date Analyzed 11/23/2010

Sample ID	Field Data	Lab Data	Fibers / cc	Limits	
				LCL	UCL
Client: <b>FB-2-11192010</b> Micro: 147227-06 11/19/2010 REMEDIAION ZONE B FIELD BLANK (BS823084)	Time Rate Liters	Fibers 0 Fields 100 F/mm <sup>2</sup> < 7.0		LCL LOD CV	UCL LOQ 0.52
Client: <b>11182010-RZ-D-NW</b> Micro: 147227-07 11/18/2010 REMEDIAION ZONE D (BS823104)	Time 650 Rate 2 Liters 1300.0	Fibers 21 Fields 100 F/mm <sup>2</sup> 26.8	<b>0.008</b>	LCL LOD CV	UCL 0.012 LOQ 0.030 0.28
Client: <b>FB-1-11182010</b> Micro: 147227-08 11/18/2010 REMEDIAION ZONE D FIELD BLANK (BS823109)	Time Rate Liters	Fibers 0 Fields 100 F/mm <sup>2</sup> < 7.0		LCL LOD CV	UCL LOQ 0.52
Client: <b>FB-11192010-RZ-D-16&amp;17</b> Micro: 147227-09 LM 11/19/2010 REMEDIAION ZONE D (BS823095)	Time 553 Rate 2 Liters 1106.0	Fibers 8 Fields 100 F/mm <sup>2</sup> 10.2	<b>0.004</b>	LCL LOD CV	UCL 0.005 LOQ 0.035 0.26
Client: <b>FB-3-11192010</b> Micro: 147227-10 11/19/2010 REMEDIAION ZONE B FIELD BLANK (BS823080)	Time Rate Liters	Fibers 0 Fields 100 F/mm <sup>2</sup> < 7.0		LCL LOD CV	UCL LOQ 0.52

Technical Supervisor: \_\_\_\_\_

Frank Raviola, M.S.

12/3/2010  
Date Reported

Analyst: \_\_\_\_\_

LM

MHA IHLAP LABORATORY Accreditation / PAT ID No. 101769. Samples are analyzed using the NIOSH 7400 Method (NIOSH Manual of Analytical Methods, 4th Ed., Issue 2 of Rev. 3, 8/15/1994). The "A" Rules are used, unless otherwise noted. The limit of detection (LOD) is 7 fibers/mm<sup>2</sup>. Limits of quantification for optimal precision and accuracy are 100 (LOQ) and 1300 fibers/mm<sup>2</sup>. The 95% UCL and LCL (Upper and Lower Confidence Limits of the Two-sided 95% Confidence Interval) represent the highest and lowest expected concentrations (in fibers/cc) for a given fiber count, based on the reported concentration. Intra-laboratory coefficients of variation (CV) for various fiber loadings are reported. Limits for compliance testing may be calculated by the client, using the CV and an appropriate regulatory standard, e.g. UCL = (Concentration + (1.645 x CV x Standard)). Concentrations are field blank-corrected. Time is in minutes, flow rate is in liters per minute. 8 Hour TWA: calculated time weighted average concentration (in fibers/cc) based on 8 hours. Note: due to method variability, 95% LCL and UCL for the TWA may vary significantly from reported TWA values. The 8 hour TWA may not be statistically accurate for actual total times less than 8 hours; zero concentration is assumed for remaining time if no information is given. Micro Analytical Laboratories, Inc. assumes no responsibility for clients' interpretation of any requested TWA data or calculations in this report. Unless otherwise indicated on this report, all required Quality Control samples have been determined to be "in control" prior to releasing these analytical results. This report shall not be reproduced without the approval of Micro Analytical Laboratories, Inc., shall not be reproduced, except in full, and pertains only to the samples analyzed. Unless otherwise stated in this report, all samples were received in acceptable condition for analysis. Micro Analytical Laboratories, Inc. shall not be responsible for clients' deviations from any prescribed sampling parameters. Air volumes are based on client data. The laboratory's verifiability of results is limited to fibers per mm<sup>2</sup>. N/A = not applicable.